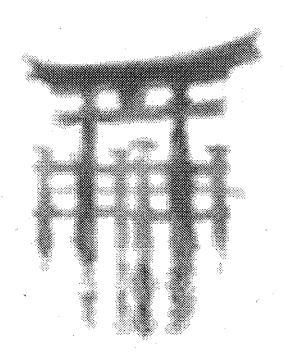


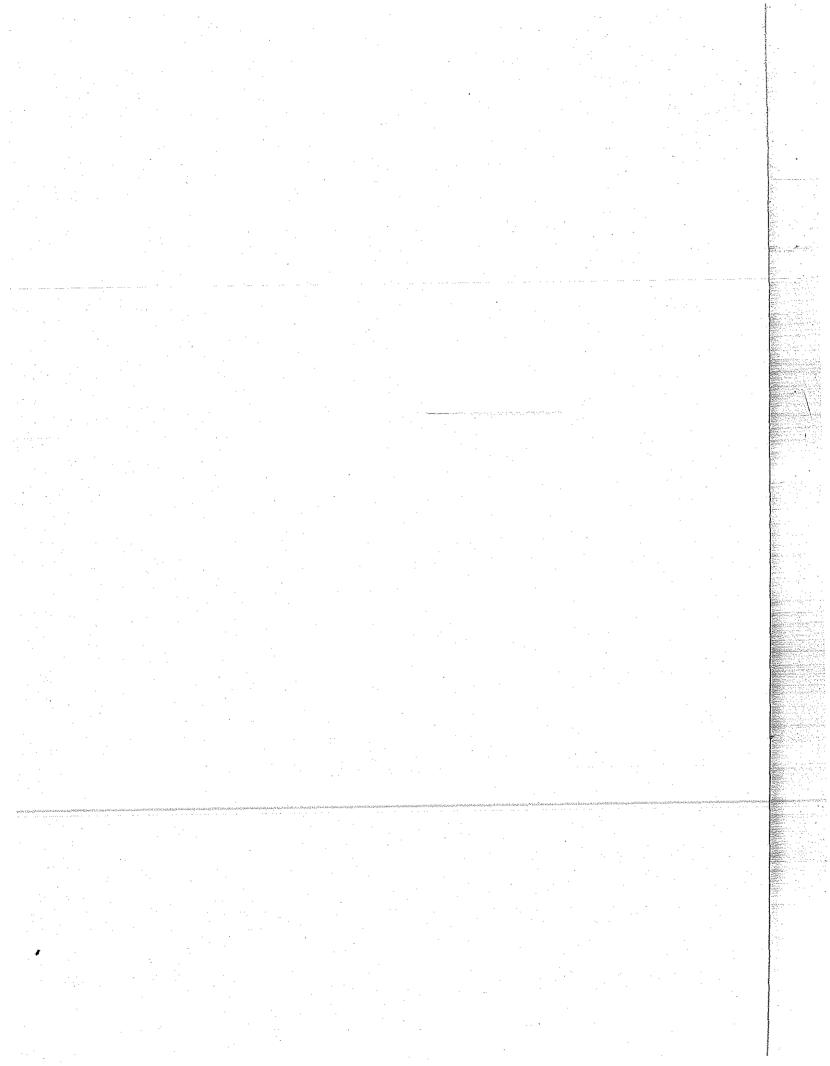
The Twenty-Seventh International Congress

International Conference Center

HIROSHIMA

October 9 - 11, 1996





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TABLE OF AUTHORS

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8	Film), Y. Suzuki (Denso) T. Umehara (Toyoda Auto. Loom Works), And The state of the
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4-4A E.Blocker(U.S.Philips)

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Barra Richard Compiler Brank

Tuesday, October 8, 1996

5:00 - 8:00 pm REGISTRATION at the Front Entrance Lobby (1st floor) of RIHGA Royal Hotel, Hiroshima

6:30 - 9:00 pm GRAND RECEPTION

"Royal Hall", <u>RIHGA Royal Hotel</u>, Hiroshima

Wednesday, October 9, 1996

9:00 - 9:10 a.m. REGISTRATION at the lobby in front of Conference Hall "Himawari"

International Conference Center, Hiroshima

9:10 -10:40 a.m.s OPENING CEREMONIES tyratic party in A Publication and Africa

Call to Order T. Sawai

9:10 - 9:20 a.m. Welcome - K. Kamisugi

Report on 1995 Activities - C. E. Larson 1999 1997 (1997) Activities - C. E. Larson 1999 1997 (1997) Activities - C. E. Larson 1998 1997 (1997) 1997 (

9:20 - 9:40 a.m. Keynote Address

TABLE S. Koda, Honorary Chairperson Plan James S. S. Sakata, James Award - 1811.

President, Mitsui Petrochemical Industries, Ltd.

9:40 - 10:00 a.m.: Guest Address of the vials to a stream of a marrial of

H. Arai

And the process Commissioner, Japanese Patent Office Landau, 1878 if the second is the first of

10:00 - 10:20 a.m. Guest Address

person of M. Hashimoto elegant was appropriated a reality territory

President, Japan Intellectual Property Association

The Meson of Francisco was the Cost of Paris I for the series

10:20 - 10:40 a.m. Presentation of PIPA Award to K. Murayama

10:40 - 11:00 a.m. COFFEE BREAK

11:00 - 12:00 a.m. Presentations by USPTO and JPO

J. R. Lynch, Comptroller, U.S.P.T.O.

T. Ohgiya, General Administration and Policy Planning Department, J.P.O.

dayara Cola wall coll

12:00 - 1:00 p.m. LUNCH at Conference Room "Ran"
International Conference Center, Hiroshima

1:00 - 3:40 p.m. JOINT PANEL DISCUSSION < Total Patent Cost>

1:00- 2:30 p.m. Filing and Maintenance Costs (Committee No.1)

J.R.Lynch, A.J.Spiegel, J. Haken, L.Welch, H.E.Cole, K. Jimbo, T. Kitakaze, Y.Kimura, N. Kokaji, M. Kondo

- including, Cost Comparisons of EPO Filing vs. National Filing by H.E. Cole

Drafting Claims under the Japanese Patent Laws by T. Watanabe 198121

Japanese Patent Cost by K. Tamura 1981-1981

2:30 - 3:40 p.m. Translation Costs (Committee No.3)

F.T.Boehm, H. Kobayashi, N. Mori, H.Tamada, Y. Toda, M.Yamamura

Digner et de Jowkeni Kolenai Kaasi tekaka i tokaj kwa lasi ka ingilika iki ka

- including, A Study on Translation Cost for Foreign Application by Japanese speakers

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3:40 - 4:00 p.m. COI	FFEE BREAK	9891 Jak	váotolk "yndanu".
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4:00 - 4:20 p.m.	Re-engineering the Applicat J. J. Hawley	•	
·	Current Problems in U.S. Po G. Samuels	· · · · · · · · · · · · · · · · · · ·	lections h:G _{-M} abresahaY
4:40 - 5:00 p.m.	Computerized File Wrapper K. Shimoda	Storing Same Section	
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10:40 - 11:00 a.m. C (OFFEE BREAK	COFFEE BEEKLE	.10:40 - 11:90 a.m.
11:00 - 12:20 am RI		NO 3	m = 00:51 - 00:11 ersons
11:00 - 11:20 a.m.	A Study of Patent Cases of H. Homma, T. Bekku	institution as fill stille	n Korea and China
11:20 - 11:40 a.m.	Update on Proposed U.S. F. T. Boehm	Legislation	im.q 0≱(E + 00rt)
11:40 - 12:00 p.m.	New European Communit	y Trademark System	1:00-2:30 p
12:00 - 12:20 p.m.	D. Wood .comid=8.elo0.5 HdoloW A Study on WIPO Draft of		*

amayand. M. Wanaparisons of EPO Filing in National Filling by M.B. Colo

12:30 - 10:00 p.m. TSOCIAL OUTING ragai and whom scaled guiffeed

Visit to Miyajima Island and Kintai Bridge, followed by Cocktail and Dinner at the Iwakuni Kokusai Kanko Hotel, overlooking the Bridge

Buses leave from the parking space to the south of the Peace Memorial Museum. Participants are requested to get on buses directly from the International Conference Center.

10:00 p.m. Arrive at RIHGA Royal Hotel, Hiroshima examings assumpting maintain a maintain and the control of th

Friday, October 11, 1996

9:10 - 10:30 a.m. JOINT PANEL DISCUSSION Intellectual Property Issues Involving the Internet (Committees No.2 and No.1)

H.L.Deffebach, III, P. Carmichael, J.E.Haken, K.Okamoto, S.Kitano, H.Ogasawara, S.Tsugaru, M.Ueda,

- including, Intellectual Property Issues Involving the Internet by S.Kitano
Trademarks on the Internet by E. Mizuno

10:30 - 10:50 a.m. COFFEE BREAK

10:50 - 11:50 a.m. REPORT OF COMMITTEE NO.2

Kiyohide Okamoto and H. L. Deffebach, III, Chairpersons

10:50 - 11:10 a.m. Software License Agreements H. L. Deffebach, III

11:10 - 11:30 a.m. Checkpoints in a Contract with a VentureBusiness K.Sato

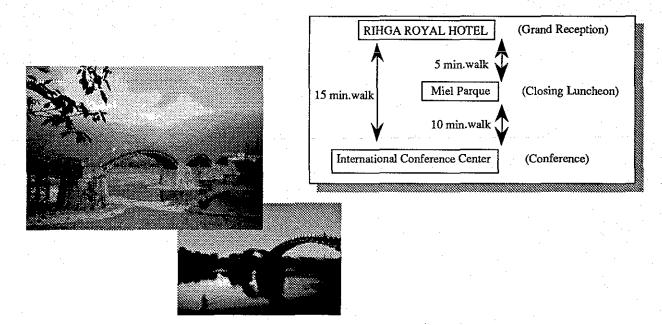
11:30 - 11:50 a.m. A Comparison of Licensing Technology and Buying a Small Technology

Company

P. S. Ruhr

12:10 - 1:40 p.m. LUNCHEON and CLOSING CEREMONY at the Miel Parque, Hiroshima 3rd Floor, Heisei-no-Ma

1:00 - 1:40 p.m. Closing Remarks - C.E. Larson, T. Tetsuka



C o v e r: Silhouette of a Torii Gate of Itsukushima Shrine in Miyajima Island Second Cover: Views of Kintai Bridge (17 Century Wooden Bridge in Iwakuni)

Priday, Decober 11, 1996

9:10 - 10:30 s.m., JOINT PANEL DISCUSSION internet (Comminess No.2 and No.3).

 including, Intellectual Property Issues Involving the Internet by S. Kitano Trademarks on the Internet by S. Micano

10:30 - 10:50 gam. COFFEE EREAK

19:30 - 11:50 à m. REPORT OF COMMITTEE NO.? Klyohide Okamoto and H. L. Deficeach, H. Chairpersons

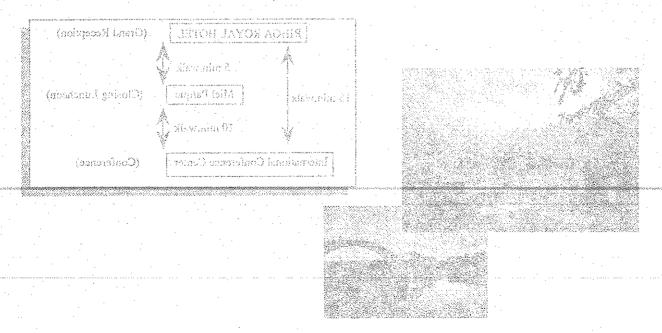
> 10:30 - 1110 n.m. Software License Agraements H.J. Deffebach, III

11:10 - 11:30 x in. Charageous in a Contract with a VentureBusiness K.Sato

11:30 - 11:50 a.m. A Comparison of Licensing Technology and Buying a Smart Technology Company P. S. Rubr

12:10 - 1:40 p.m. LUNCHEON and CLOSING CEREMONY at the Missississement of the Mississement of

1:00 - 1:40 p.au. Closing Remarks - C.E. Larson, T. Tersuka



Covortished to the Silhoutto of a Toril Gate of Irdukurinima Sprine in Miyajima Island. Second Covert Views of Kintal Bridge (17 Center v Weeden Bridge in Iwakuni)

(1) Title: <u>COST COMPARISON OF EPO</u>

filiko vs. national filiko

FILING VS. NATIONAL FILING

(2) Date: October 9, 1996

At last year's PIPA Conference, NATI : Source: Gene: Source: (8)
Company presented an excellent paper on global patent costs and why they must
be reduced. The tetal cost, cradic-to-grave. R.U. iquorDing(df a standard
application destignating all the Countries is \$134,401. In order to reduce this
an erect, several strategies can be develor! south mmoOo r(oficular industries.

(4) Author: Harold E. Cole, Eastman Kodak Co.

A) MANUFACTURING STRATEGY

(5) Abstract: Strategies for reducing countries designated in the EPO are

SUCY ZOCHA USY HATHY ETIATIVES Can also be achieved by filing.

- Inoteg lierevo ni r**nátionally in large market European countries** ninotes y European countries y European countries ninotes y European countries ninotes y European countries ninotes y European countries ninotes y European countries y European count
- "He protection given to a paramete to exclude others from making the invention
 in connectes where manufacturing is to ake place is believed to be sufficient to
 protect the paramete's interests.
 - If putents are charined in the European countries where canadacturing is to take place, then putents in other European countries are supperfuents.

DI MARINTEN SERRATION

FILE IN ONLY 1210572 EEG COUNTRIES WHICH HAVE THEILARGISST MARKETS

According to life. Berriet, at EPO filing designating France, Germany, halfy, Notherlands and the United Fingelon costs \$66,205, which includes \$12,612 for the UP filing and prosecution. This comparer to \$22,512 for Japan and \$14,370 for the U.S. This is sugaranteed in the following Table:

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COST COMPARISON OF EPO FILING VS. NATIONAL FILING

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PHLING VS. NATROHAU FILING

EPO FILING

October 9, 1936

rO (S

At last year's PIPA Conference, Mr. Berrier from the General Electric (E) Company presented an excellent paper on global patent costs and why they must be reduced. The total cost, cradle-to-grave, for EPO filing of a standard application designating all EPO Countries is \$134,401. In order to reduce this amount, several strategies can be developed according to particular industries.

Hard B. Cole, Bastnan Rodek Co. A) MANUFACTURING STRATEGY

(4) Author.

ole Office of the Edwards solution of guidebse to be signified. To stated A FILE IN ONLY THOSE EPO COUNTRIES WHERE YOU AND/OR YO

FILE IN ONLY THOSE EPO COUNTRIES WHERE YOU AND/OR YOUR COMPETITORS HAVE MANUFACTURING CAPABILITY

- By selecting only certain countries, significantly reduction in overall patent costs could be achieved.
- The protection given to a patentee to exclude others from <u>making</u> the invention in countries where manufacturing is to take place is believed to be sufficient to protect the patentee's interests.
- If patents are obtained in the European countries where manufacturing is to take place, then patents in other European countries are superfluous.

B) MARKETING STRATEGY

FILE IN ONLY THOSE EPO COUNTRIES WHICH HAVE THE LARGEST MARKETS

According to Mr. Berrier, an EPO filing designating France, Germany, Italy, Netherlands and the United Kingdom costs \$66,205, which includes \$12,012 for the EP filing and prosecution. This compares to \$22,522 for Japan and \$14,370 for the U.S. This is summarized in the following Table:

EPO (all)	EPO*	Japan	U.S.
\$134,401	\$66,205	\$22,522	\$14,370

^{*}designating FR, DE, IT, NL and GB

oil at The above five designated countries ranked according to population are as follows: He has been somed, you have been someon associated to

Country	Population was vi-	palanter to basic
	(Millions)	
Germany	80	
United Kingdom	58	NATIONALITA
Italy	58	and the second of the control of the second of the second of the control of the c
res France de se villangiane	satifi at apvis 57 d exts bingsts	Consideration
Netherlands	ichen Fermil 15 tilet in broter	

propared by Mr. Ronald Nounce, Modale's Paront Director in the United-Kingdom He compares the cost of filing in the GPO verse. Sing nationally in Great Breatn,

The above five designated countries ranked according to 1992 GDP are as follows:

Country	1992 GDP
·	(Billions)
Germany	1,331
France	1,000
Italy	965
United Kingdom	915
Netherlands	249

However, the above five designated countries ranked according to maintenance fees and total patent costs are as follows:

Country	Maintenance Fees	Total Patent Costs
Italy	11,885	14,515
Germany	13,873	14,361
Netherlands	11,552	. 13,323
France	5,960	6,160
United Kingdom	5,115	5,744

It can be seen that the Netherlands is completely out of line with total patent costs when compared to its population and GDP. Italy is also out of line for the same reasons, when compared to France and the United Kingdom.

- Thus another filing strategy based on market size and total patent costs is to limit EPO filing to Germany, France and the United Kingdom.
- Generally speaking, for a product to be successful in Europe, there would have to be sales in those three countries.

- Generally, it would not be practical for someone to market a product in the other European countries and exclude Germany, France and the UK.
 - Having patents in three of the largest European markets will enable the patentee to basically cover Europe

NATIONAL FILING

Consideration should also be given to filing nationally in the European countries of interest instead of EPO filing. The following information was prepared by Mr. Ronald Nunney, Kodak's Patent Director in the United Kingdom. He compares the cost of filing in the EPO versus filing nationally in Great Britain, France and Germany for a 30 page specification, 6000 words, with 12 claims.

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 limited to Colora any, France and the Conte difference.
- Generally symbiling, for a product to be saucosofied to Europe, dash, would be vo to be called in these blons conducts.

Comparison of Euro and National fees for US-Based applications (in US \$)

30 Page specification (6000 words)

1	Filing fee for US based filing	Excess claims fee (for 12 claims)	Full fext Translation (6000w) Increased by 3% for 5 years	Search	3 desig. fees (3 EP countries)	Exam- ination fee †	Grant fee	Euro filing time charge (no review)	Euro * attorney time charge (prosecution & grant)	Excess pages (6000 words)	Printing fee	Maint fee (to end of 4th year)
EPO (3 desigs.) in DM In US \$	600 \$422			1900 \$1,338				advance a d	\$1,870°			1550 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Great Britain in \$ In US \$	25 \$38	I	N/A	130 \$195		2130 \$195	11	\$55	\$3333 E8 \$1,496	A Company of the Comp		F# /
France in FF In US \$	365 \$61	115 \$19	6470 \$1,074			. \$436		\$55	\$1 122		560 \$93	Sant 400 (002) 14 (00) (00)
Germany in DM In US \$	100 \$30 \$70 490	1	1526 • \$1,074 ავე	200 ോ\$141	101 101	400 \$282	17	1 :-	\$ \$6° \$1,49 6			200 \$141

5-9130

Assumptions:

- 1. Support time prior to filing is 1 hour assuming no review. In cases with drawings translation often required. This would be extra.
- 2. Attorney time for EP prosecution is 10 hrs (2 Official Communications)
- 3. Attorney time for GB prosecution is 8 hrs
- 4. Attorney time for FR prosecution is 6 hrs
- 5. Attorney time for DE prosecution assumed 8 hours but deferred examination is the preferred route and only comes up 7 years on.
- 6. The figures for 4 & 5 countries assumed to be 4xaverage of DE/FR/GB.

† DE Exam fee reduced to 250DM † Examination very
If prior search carried out. | light in France...

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France and Germany is about 20% more expensive than filing nationally in those countries. Thus, a considerable savings could be utilized by going the national route rather than the EPO designating these three countries.

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(3) Source

THE "FORGET FRANCE" STRATEGY

Another option to consider is to file nationally only in the United Kingdom and Germany and eliminate France. This has the advantage of having only one prosecution in English right away. The prosecution in Germany can be delayed for seven years.

The total cost for filing the application in the EPO is seen to be \$10,629. If filing were to take place nationally only in Great Britain and Germany, the cost would be only \$5,344. Thus a savings of 50% can be achieved by this strategy. If after seven years it is decided to drop the prosecution in Germany, then the savings would be even higher.

I hope the above information will be useful in deciding on filing strategies in Europe to reduce costs. Also, a change in filing patterns by enough companies over a period of time may force some of the countries whose patent costs are out of line to reduce their patent costs.

(3) Wey words: Japonese Patent Law [§ 17bis: § 17quaten | § 36 and

U.S. Patent Law \$ 512 and 121

acquisition Treaty Art. 3 and heguianons

Art. 13

(1) Title Drafting Claims under the Japanese Patent Laws Freez and Germany is about 20% arter expressive than bling ratioficially in those commics. Thus, a considerable savings could be utilized by some the mational October, 1996 (27th International Conference in (2) Date Hiroshima) 1) Source: (3) Source meignal baint sa a yno ynanosa sit o a gasao a saigo acasa.A ego vino univer to e3) an Committee: (T #1off emmitte bas yourse care (4) Authors of the Ventural Tezuka Kazuhiko NKK Corporation TEC Corporation Tomita Koii NEC Corporation Tanisawa Yasuhisa d Connany, the cost The syndrome side of boys Watanabe Takahiro was Hitachi, Ltd 23 ying of binow agaivas ad god yasara Kitagawa Toshio god Mitsubishi Heavy Industries zoigelaus giiiii no goi Nakatsuru Kazutaka Mitsubish Electric in Forther to rece**nce representation** a charge in this patient by enough comparing the one area ment of Takizawa Masahiro a Lion Corporation in a reve Ricoh Company ,Ltd. Ishijima Hisashi Japanese Patent Law § 17bis; § 17quater; § 36 and (5) Key words: 37 U.S.Patent Law § 112 and 121 Patent Cooperation Treaty Art. 3 and Regulations Art. 13

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1: Theme: Drafting Claims under the Japanese Patent laws and houses and the

2: Introduction

In recent years, Japanese and US Patent Offices have made agreements in view of international harmonization regarding patent system through TRIPs Agreement in Uruguay Round of GATT and Japan-US Trade Framework Negotiations, as a result of which Japanese Patent Law has been amended for a few times.

THE ENGLAND OF BURNING THE EAST

On the other hand, economic aspect of intellectual properties, especially the cost management thereof, is drawing more and more attention.

Based on this situation, this paper studies practical idea for claim drafting in view of obtaining and maintaining a patent with effective rights. In concrete, we summarize the part of amendments to Japanese Patent Law which affect drafting of effective claims while considering following two issues relating to cost management.

- ① Comparison of practice in Japan, US and PCT(Patent Cooperation Treaty) regarding unity of invention
- ② Comparison of official fee in Japan and US for application and maintenance of a patent
- 3: Current practice of claim drafting in Japan in compliance with law amendments the state of th

sa crech tint edeld sa preferenced skipetively incented the dischauge to

3-1: An outline of amend act of 1987, 1993 and 1994 affecting claim drafting Table 3-1 shows the amended parts of Japanese Patent Law during last decade(which took place in 1987, 1993, and 1994) that are supposed to affect claim drafting.

	Tal	ole 3-1/. Ya jala kosmuz selkaj utagomođaj					
ant, Amend Actuals	Effective Date	Major Amended Part					
Amendment	January 1,	① Understanding of an invention					
1987 zereisser od son	1988: Notinevell	2 Revised system of multiple claims					
Amendment of	January, s) screets	$_{3}igodot_{3}igodot_{3}$ Restriction $_{3}$ of $_{2}$ amendment $_{2}$, to					
1993	1994	application					
Amendment	January Anto 15	Alleviation acofordescription					
1994	1995	requirement CA MAR Amulsk					
sal od kanadam, ai lic	ally su the scope	for patent claim(s) and specification					

These amendments are outlined as follows. These amendments are outlined as follows.

3-1-1: Amendment of 1987

3-1-1-1: The purport of amendment us samusust sessor uses a sil

The amendment of 1987 took place to meet following demands;

- ① a revised of stating scope of claim which allows multilateral expression that covers, without omission, advanced and complicated technological innovation
- 2 extension of definition of unity of invention based and all all
- **Sinternational harmonization** desired international harmonization desired in the state of the control of the c

3-1-1-2 Understanding of invention (\$36) bear guidantee to were at quilland

It had been provided in the Patent Law before the amendment of 1987 that "only such matters that are essential to the construction of the invention specified in the detailed explanation of the invention" be stated in the patent claim(s). It suggested that in principle the claimed invention was understood based on the matters stated as essential for the patent claim(s) as well as in consideration of the description in the detailed explanation of the invention. That is, the invention to be stated in patent claim(s) was treated as such that could be understood objectively through the disclosure in the detailed explanation of the invention.

Then the amendment of 1987 provided that "only such matters that are essential to the invention for which a patent is sought" be stated in the patent claim(s)[§ 36(iv)]. It meant that as to the invention described in the detailed explanation of invention the applicant could determine to which invention, in terms of categories, independent/dependent concept and others, he/she would seek for a patent and he/she could state the scope of protection to be sought in the patent claim(s).

And the invention was understood based on the matters stated in the patent claim(s). It was suggested that even though the detailed explanation and drawings were considered, claimed invention must not be understood apart from the description in the patent claim(s).

3-1-1-3: Extension of unity of invention and revised system of multiple claims (§ 36, 37)

notisarlags

Section 37 was amended drastically so the scope of inventions to be

contained in a single application as follows; nombreak to noncorrect is a second with specified invention must have been "same in

substantial part and in ends" before amendment, it was amended to "same in industrial applicability and the problem to be solved." or "same in industrial applicability and substantial part" [\$37(i) (ii)] had a same and activated

2: As to different categories is aignounced worth whether the make accord beliefe

In addition to "specified invention relating to a product," the amendment added "inventions of process of using the product" and "inventions of process used for handling the product." [§ 37(iii)].

3 To leave the possibility of prompt extension of unity of invention in the future, a new item such as "inventions having a relationship as provided for in Cabinet Order" was provided[§ 37(v)].

The scope of inventions that may be contained in a single application was thus extended to a large degree cases as how the contained in a single application.

Furthermore, more comprehensive applications became available as a synergy with "extension of unity of invention" since one invention could be stated in multiple claims under the provision of § 36(6) which read "it shall not preclude the statements of the patent claim(s) to be such that an invention claimed in one claim is the same as an invention claimed in another claim." As the result, the scope of inventions that may be contained in a single application got to surpass the level of US and Europe.

However, since it was provided in \$36(4)(ii) that the statement of patent claim(s) be "only such matters that are essential to the construction of the invention," the freedom of expression in patent claim(s) was regarded restricted when compared with that of US and Europe where functional and operational description was accepted.

in the patters chim(s), if was also provided that the sentencents of parent of decor.

3-1-2: Amendment of 1993 exercises of terms while making time Indi has

3-1-2-1: The purport of amendment word and anianous beach some rolling

and the amendment of 1993 took place to meet following demands;

- ① Request of prompt protection of the product obtained from technologicals: development approximate an experience of substantial approximation of the product obtained from technologicals:
- 2 Needs for international harmonization should be expected by a translational later

wish minestical braid of the Alema-planting distribution of

3-1-2-2: Restriction of amendments to application [\$\\$47(2)\] et al] at head states

Amendment to application had conventionally been drestricted because of the provision to say "amendments to change the substantiality is unacceptable." The same was a moral response and the first and fair areas for the substantiality is unacceptable.

The amendment of 1993 provided that any amendment relating to specification or drawings shall be "rejected" if it added a new matter that "a skilled person cannot directly draw from original specification or drawings."

who at arches he to grow to coiscers, tagging to yithing on editores of the

3-1-3: Amendment of 1994 seasoned anonogy gift as decay social year a received

3-1-3-1: The purport of amendment (10) (12) this very size being the bring worlds as

The amendment of 1993 took place to meet following demands;

- ① Acceptance of functional and/or operational claims in the behand a positive of
- 2 Respect for claim description subtains a remarkable property of the second subtained
- 3 International harmonization where the where to move make the government

3-1-3-24: Alleviation possedescription or equirement possedent claim(s) quade specification animazza are an order order of relative of health's notice are [\$.36] and of respectively and the second order of the second order.

stant of in multiple stance under the provision of \$8000) which could be that

Since conventional description of patent claim(s) was required to be "only such matters that are essential to the construction of the invention," functional and/or operational description was not clearly admitted as a matter of law.

Then the amendment of 1994 provided that "all matters that an applicant for a patent considers necessary in defining an invention" be stated in the patent claim(s). It was also provided that the statements of patent claim(s) must "clearly describe the invention for which a patent is sought" and that "each patent claim must be concisely stated." As a result, functional and/or operational expression has been widely admitted as well as the freedom of expression for patent claim(s) caught up to the same level of that in US and Europe.

This amendment might incur the difference in construction of claims with functional and/or operational expression between Japan and US, which we go into detail later in "3-2: Means-plus-function claim."

- 3-2: Means-plus-function claim
- 3-2-1: Means-plus-function claim in Japan
- 3-2-1-1: Reasons to admit in Japan

It should be noted in view of the purport of amendments that description of an invention of a product specified by its operation, function, features, process, application, use and others may not itself be taken as inappropriate as far as the invention can be understood clearly.

Accordingly, a means-plus-function claim in a US application may be admitted in Japan.

However, the description of an invention of a product specified by such elements may be regarded as imperfect pursuant to \$36(6)(ii) if the invention cannot be defined clearly based on the level of the art at the time of application being filed. In concrete, an application which fall within either of five types specified in Table 3-2-1 shall be regarded imperfect under this provision. The description specified by these elements especially tends to be obscure in outlining the invention as a result of which the "clarity" required by this provision could be risked.

. Reclins weighted be a fixed an order critical and the constant $\stackrel{\circ}{\mathrm{Table 3-2-1}}$

	Table 5	22 - L
Type	Feature of the Type	Example
	Unclear description of patent claim	The description contains mis-
lasti	itself makes the claimed invention	statements and unclear
	obscure.	expression for which it is
	weather to	inappropriate as Japanese
80000	u to antegraces estructer to acceptant of a	language and the invention is
12 - 1	vy dty alvilatji kan ove male i ito e byartuda k obe-	thus regarded as obscure.
2	Technical defects in specifying the	The statement contains
Ala digi	invention prevents the invention	technically incorrect description
CHARLES Last Co	from being correctly defined and	such that the sum of ingredients
	thus regarded as obscure.	goes over 100%.
3	Outline of invention as a	The numerical definition is such
	technical concept(i.e. the scope of	that only minimum and
	matters covered by the concept) is	maximum figures are described.
	not clear.	The base of comparison and
		extent is vague(ex."far bigger").

means for the contrastings. 20 in air minim and realises in making a tade on a 20 hair

4	1	The category to which the "process and device to"
		invention belongs is not clear or "the anticancer effect of chemical
	(s	specified category does not seem compound A" compound A" appropriate for the invention.
5	1 11() 5	The elements by which the "certain parts or a device that the
	,	invention is specified are stated parts are incorporated"
lag:	733	in the form of selections which do "transmitter or receiver that has
		not have similar feature or certain power source".
<u>.</u>	-	function to each other.

3-2-1-2: Determination of novelty and inventive step

When the description of patent claim is clear, claimed invention will be admitted in accordance with the description. Accordingly, when there is a description in which an invention is specified by working, function, character, or feature, the patent claim is construed as covering everything that produces such working and function or as covering everything that has such character or feature, base on which novelty and inventive step shall be determined comparing with cited and prior inventions.

and olements may be resourced as important

Accordingly, cited and prior arts shall contain not only corresponding structure, material or workings to the means for attaining specific function described in the specification and its equivalents but also everything that have such working, function, character and feature.

3-2-1-3: Construction of technological scope

Technological scope shall be determined on the description of patent claim(s) based on the construction of terms used in the claim(s) of which meaning is given in consideration with the description and drawings of specification other than claim(s). Therefore, a means-plus-function claim may be construed not limited to the corresponding structure, material or working to the means to attain specific function described in the specification and its equivalents.

3-2-2: Comparison of Japan and US

3-2-2-1: Requirement of description

It is assumed that there is virtually no discrepancy between Japan and US and that a means-plus-function claim in a US application that is now

filed within a Japanese application shall be accepted as far as the "clarity" is secured. Indicate a ground allows as not express yet be express any extragation

manufactorius device (19922). "pzeduci sud ice sumufacturius propres trope

3-2-2-2: Standard to determine novelty and inventive step in the beautiful and inventive step in the b

everything that produces specific working or function and that has such character or feature.

In US, on the other hand, it had been regarded that any or all of those which attains such function described in the means-plus-function claim (i.e. the same standard as current Japan). But now, after In re Donaldson decision delivered by CAFC, the implementing guideline of USPTO published in the Official Gazette of May 17, 1994 provides that "pursuant to the 6th paragraph of section 112 of Patent Law, USPTO shall construe that it is restricted to construction, material or working specified in the specification and its equivalent."

patentability of a means-plus-function claim is higher in Japan than in US. It has been also shown but (b) as (b) as how as YE as here it (c) as (b) at the standard for determining patentability of a means-plus-function claim is higher in Japan than in US.

3-2-2-3: Broadness of technical scope of temples done in thoses on another visit

The technical scope of a means-plus-function claim in a US patent is restricted to, pursuant to the provision of 6th paragraph of section 112, means or manufacturing process to attain specific function is restricted to corresponding structure, material or working described in the specification and its equivalent. In Japan, on the other hand, there is no corresponding law or provision because of which the technical scope of a means-plus-function claim is supposed to be construed broader than in US.

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- 4. Notice to be taken when filing a US application from Japan
- 4-1: Comparison in unity of invention of Japan, US and PCT along and order.

Table 4-1 shows the definition of unity of invention by Japanese and US patent laws and PCT. In Japan § 37 of Patent Law provides unity of invention. In US, the examination standard for Restriction Requirement is specified in MPEP 806.05. As to PCT, Rule 13 provides unity of invention.

US are listed in that order from left to right. It also attempts to compare them in light of six types in which the categories of inventions contained in a

single application is same(type 1) or different(type2~6). Among different categories, we compared by "process for manufacturing a product and the manufacturing device (type2)," "product and its manufacturing process (type 3)," "product and its use (type 4)," and "product and its use and manufacturing process(type 5)." The number for the types is given from top to down simply for convenience.

This order followed that of MPEP in US because of which (iv) and (iii) of section 37 of Japanese Patent Law are listed in opposite order.

In table 4-2, Venn diagrams are employed to visually understand the relationship of three systems regarding unity of invention. It appears that Japan demands in any type (1~6) less requirement of unity of invention than in US. It can be said that the Japanese requirement is generally the same as that of PCT except that an application which meets (1) and (2) of section 37 in Japan may not overcome PCT's requirement of Rule 13 if the categories are the same (type 1). On the contrary, even if an application meets PCT's requirement of invention, unity of invention may not be recognized in Japan if (1) and (2) of section 37 are not met. Further, in type 6, an application which meets (1) or (2) of section 37 as well as (3) or (4) and multiple related inventions are specified, such related inventions may not interrelate to each other. In this case, it goes against the requirement of unity of invention of PCT. Consequently, there may be some discrepancy in requirement of unity of invention.

of subcombination and combination, Restriction Requirement may be ordered if the subcombination itself has patentability and applicability by itself. In this case, the requirement for unity of invention is not met, which relates that the requirement is tougher than that of Japan. In this case, again, Generic Claim can be made which can be an application if the Generic Claim has patentability.

To see type 3 as an example of different categories, when, for example, considering "product and its manufacturing apparatus" in US, the unity of invention shall be met when the product can be manufactured only by the manufacturing device as well as when the manufacturing device is competent only for manufacturing the product. In Japan, this "only" requirement is not imposed which makes it difficult for an applicant to overcome the requirement of unity of invention in US. As to different

	ng Claim.		e e	
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Table 4-1 Comparison of Requirement of Unity of Invention in Japan, US and PCT

	longo	· · · · · · · · · · · · · · · · · · ·	PCT		US	1/6
Туре	Japan Requirement of unity of in		37 Unity of invention	Rule	Examination guideline for questions of restriction requirement	MPEP Sec.
1 Single	Where there are two or more inventions, they may be the subject of a patent application in the same request provided that these	the inventions are the same in terms of the industrial applicability and the problem to be solved	An international application shall relate to one invention only or a group of inventions so linked as to form a single general inventive concept	1	Relative to an application containing combination claim and subcombination claim, restriction shall not be required if patentability resides in the subcombination claim and the combination claim does not contain novelty that the subcombination claim lacks (Requirement for unity of invention is met).	806.05(a)(b)
Category	inventions are of an invention claimed in one claim (hereinafter referred to as "the specified invention") and of another or other inventions having the relationship as indicated below with respect to such specified	the inventions are the same in terms of industrial applicability and the substantial part of the features stated in the claim			However, if combination claim and sub-combination claim have patentability respectively (i.e. where patentability does not solely resides in the subcombination claim), if the subcombination has utility by itself, or in other and different relations, restriction shall be allowable (Requirement for unity of invention is not met). Requirement can be met in the case of Generic Claim.	806.05(c)

		Japan		PCT		US			
	Туре	Requirement of unity of invention	§ 37	Unity of inven-	Rule	Examination guideline for questions of restriction requirement	MPEP Sec.		
Various Categories	2	where the specified invention relates to a process, a process of the product inventions of machines, instruments, equipments,		An international application shall relate to one invention only or a group of inventions so linked as to form a single general inventive concept	13.1	Relative to inventions regarding apparatus and process practiced by the apparatus, if the process as claimed can be practiced by another materially different apparatus or by hand, or if the apparatus as claimed can be used to practice another and materially different process, restriction shall be allowable (Requirement for unity of invention is not met). If claimed process can be practiced only by means of claimed apparatus and if claimed apparatus is applicable only to claimed process, requirement for unity of invention shall be met.	806.05		
		Technoline partition placehouses		(101)					
	l (Abc l	ម្ភេចបំផ្លេង ២០៤៤ ល្បី ជំបន្តិកំបត្ត លេកទប្សសំមាន ។ បានប្រជាធិបតី បានប្រជាធិបតី បានប្រជាធិបតី ។	\$ 5±	Their of Wash	BATO	nous of resolution requirements	NEED 2001		
		54394	.,	143					

		 Japan		PCT	
	Type	Requirement of unity of invention	§ 37	Unity of inven-Ru	Examination guideline for ques- ule tions of restriction requirement MPEP Se
Various Categories	3	where the specified invention relates to a product, uct, process of manufacturing the product or inventions of machine, instruments, equipment or other things used for manufacturing the product process of manufacturing the product or inventions of machine, instruments, equipment or other things used for manufacturing the product process of manufacturing the product or inventions of machine, instruments, equipment or other things used for manufacturing the product or inventions of machine, instruments, equipment or other things used for manufacturing the product or inventions of machine, instruments, equipment or other things used for manufacturing the product or inventions of machine, instruments, equipment or other things used for manufacturing the product or inventions of machine, instruments, equipment or other things used for manufacturing the product or inventions of machine, instruments, equipment or other things used for manufacturing the product or inventions of machine, instruments, equipment or other things used for manufacturing the product or inventions of machine, instruments, equipment or other things used for manufacturing the product or inventions of machine, instruments, equipment or other things used for manufacturing the product or inventions of machine, instruments, equipment or other things used for manufacturing the product or inventions of machine, instruments, equipment or other things used for manufacturing the product or inventions of machine, instruments, equipment or inventions of machine, instruments, equ	(iii)	An increasions application color in white a con- force so baked os Relative to inventions regarding apparatus (or process practiced by the apparatus) and the resultant product, (a) if the product as claimed can be made by another and materially different process; or (b) if the process as claimed is not an obvious process of making the product; and if the process as claimed can be used to make other and different products, restriction shall be allowable (Requirement for unity of invention is not met). (If claimed product is make only by claimed process and if claimed product only, requirement for unity of invention shall be met).	
		georgishment of unity of invention	8.25	Lody of Invent R	the Control with the organization at Assetting
			Alaman in the Section of the Section	To BOL	

-22-

		Japan		PCT		US	
	Туре	Requirement of unity of invention	§ 37	Unity of inven- tion	Rule	Examination guideline for ques- tions of restriction requirement	MPEP Sec.
Various Categories	4	inventions of process of using the product, inventions of process used for handling the product, inventions of products solely utilizing the specific properties of the product or inventions of things used for handling the product				Relative to claim(s) regarding product and process of using the product, if the process for using as claimed can be practices with another materially different product, or if the product as claimed can be used in a materially different process, restriction shall be allowable (Requirement for unity of invention is not met).	806.05(h)
		elegace mans of analyzed invading		TOP TOP TO SERVICE OF THE PROPERTY OF THE PROP		Consequencies granding for good band of cold-july in a piece of the cold-july in a piece of the cold-july in a piece of the cold-july of the cold-july of a property of the product and define to a product of cold-july of a product and define to a product and define the product and define the product and define the cold-july of the cold-july	900 09(9) V6-71, 891
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	1	 Japan		PCT		US		
	Туре	Requirement of unity of invention	§ 37	Unity of inven- tion	Rule	Examination guideline for questions of restriction requirement	MPEP Sec.	
	5	type 3+4				Three set claim: Relative to an application containing claims to a product, claims to a process of using the product, and claims to a process of making the product,	806.05(1);	
Various Categories		process of nature of process of proce				restriction shall be allowable (Requirement for unity of invention is not met). (a) If the product is distinct from the process of making the product, restriction as to the three categories (product, process of use, and process of making) is allowable. (b) However, if the claim to the product is rejected, unity of invention shall be examined automatically with regard to process of use and process of	37 C.F.R. §1.141(b)(h)	
	1			god . goga og tvakke	44,440	makings of consequence to the periods		
	1 186	Requirements of will you studen		grant grant of the Committee of the Comm		Toeschieden opdien in tot gars-		

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	Туре	/pe Japan /pe Requirement of unity of invention		§ 37	PCT Unity of inven-	C Rule	Examination guid tions of restriction		MPEP Sec.
Various Categories	6	Such inventions having a relationet Order pursuant to §37 (v) or those having relationship, as prothe same section, with the inventions having such r (i) and (ii) of the same section vition as provided in the same section(s)	onship provided in Cabi- f Patent Law shall be ovided in (iii) and (iv) of ntion stated in the claim elationship as provided in with the specified inven-	Patent Imple _T menting Act- §1bis	tion State and A personal de la company de la c	In the case where claim is made as a extend the scope invention. There are followin types of linking claims; 2) "means" for praprocess 3) product linked to	a linking a means to of unity of g three aims; ing product and product cticing a	809.03	
Capileti Sudje	The state of the s	Satistaction of requiregacid provided in (f) or (f) ; (g) nor (f) is not sufficient tocause of belog volumby some of calegory.	concess Telecologistations Louismon of a sances		e elektrik zen er	g papag Alabag	to etchlos(a), lb) or ambigation contain bility mit tellity by		
		Nukyo: Prechipal	(87% vs) Avija vijišnoujes Acil		Caeminarion Gaid Restrotor			A contract of the contract of	estatioentip

Comparison of Requirement of Unity of Invanton

	-	Japan		PCT		US	
	ı ype		ention				Interrelationship
Single Category		satisfaction of req					JP US
		provided in (i) or (ii)		formation of a single			PCT
		because of be virtually same	eing e or	general inventive concept	where a generic claim is made	if subcombination contains patentability and utility by itself	
	2				(19) Product (1997) See		JP · PCT _US
Various Categories gayaboteas gateata		oleano(s) The de province (bit			where a linking claim is made	practiced by means of a materially different apparatus (b) if claimed apparatus can	
		Electrical Company of the Control	A vieto vieno di 1940 de la 1940	incursing of a single	JP · PCT US		
	3			concept	where a linking claim is made	(a) if claimed product can be made through a materially	
			edwicz og tety	8.14 (1874) (1840) 1 1818)	134 may 0, 1269; 1	(b) if claimed process can be used to make another product	
e e	rious gories	egory 1 rious gories	Type Unity of Inverse (§ 37) satisfaction of required provided in (i) or (ii) is not because of because of because of provided in (v) satisfaction of requirements in the provided in (v) rious agories satisfaction of requirements in the provided in (v)	Type Unity of Invention (§ 37) satisfaction of requirement provided in (i) or (ii) (i) nor (ii) is not satisfied because of being virtually same or difference in category satisfaction of requirement provided in (v) rious agories satisfaction of requirement provided in (iii)	Type Unity of Invention (§ 37) Unity of Invention (Rule 13) satisfaction of requirement provided in (i) or (ii) (i) nor (ii) is not satisfied because of being virtually same or difference in category satisfaction of requirement provided in (v) satisfaction of requirement provided in (v) formation of a single general inventive concept formation of a single general inventive concept satisfaction of requirement provided in (iii) satisfaction of requirement provided in (iii)	Type Unity of Invention (§ 37) Unity of Invention (Rule 13) Examination Gui Restriction Ingle egory satisfaction of requirement provided in (i) or (ii) (i) nor (ii) is not satisfied because of being virtually same or difference in category Indicate the provided in (v) satisfied because of being virtually same or difference in category Indicate the provided in (v) satisfaction of requirement provided in (v) restriction not allowate the provided in (v) restriction	Type Unity of Invention (§ 37) Unity of Invention (Rule 13) Examination Guideline for Question of Restriction Requirement angle agory 1 Satisfaction of requirement provided in (i) or (ii) formation of a single because of being virtually same or difference in category of difference in category (Solution of a single general inventive concept (Solution of a single g

					2/2
	Туре	Japan Unity of Invention (§ 37)	PCT Unity of Invention (Rule 13)	US Examination Guideline for Question of Restriction Requirement	Interrelationship
satisfaction of requirement formation of a single					
	14 13 15 16 16 16 16 16 16 16 16 16 16 16 16 16	provided in (iii)	general inventive concept	where a linking claim is made (a) if claimed process caused to make a materia different product (b) if claimed product in applicable to the use other process.	S
Various Categories		satisfaction of requirement	formation of a single	restriction not allowable pursuant to 806.05(i	JP · PCT / US
	5	provided in (iii)	general inventive concept	where a linking claim is made (a) if claimed product is from claimed process to the product (b) where claimed product rejected, remained claim be automatically restrict process of use and product process.	make Juct is ins will led to
		satisfaction of requirement provided in (v) and Patent Implementing Act § 1bis	formation of a single general inventive concept	where a linking claim is made possible subject of restricted requirement.	iction JP (PCT US

4-2: Comparison in practice regarding unity of invention of Japan and US

(Analysis of an actual case of US application filed from Japan)

4-2-1: Explanation of data

While difference in unity of invention between Japan and US can be understood by each national law and/or rule, it is not clear what feature lies thereunder. To grasp the actual situation in both countries, we collected US applications original of which are filed in Japan and collected such data as whether restriction was required regarding such US applications, reasons therefor and other matters. Subject US applications were classified according to the filing date (1985~1987, 1989~1990, and from 1991) of original Japanese applications (hereinafter referred to as "corresponding Japanese application").

(1) Conditions for Sampling

Subject US applications were picked up at random from US applications filed by the companies which members of this working group belong to.

Total 174 cases were collected (52 US applications of which correspoindg Japanese applications filed from 1985 to 1987, before implementation of revised system of multiple claims, 66 US applications of which corresponding Japanese applications filed from 1989 to 1990, after implementation of revised system of multiple claims and 66 cases as to corresponding Japanese applications filed since 1991.) The collected cases were studied regarding items described in (2).

(2) Outline of collected data

The study items were; average number of entire claims of US applications at the time of being filed (hereinafter referred to as "number of claims"); average number of independent claims at the time of being filed (hereinafter referred to as "number of independent claims"), number of dependent claims at the time of being filed (hereinafter referred to as "number of dependent claims"), average number of pages for detailed explanation of invention in US patent publication (hereinafter referred to as "number of pages") average number of drawings at the time of a patent being registered (hereinafter referred to as "number of drawings"), average number of domestic combination which shows the number of US applications that

claimed Japanese priority at the time of US applications being filed (hereinafter referred to as "number of domestic combinations"); and whether or not each US application were ordered for restriction requirement.

Furthermore, we studied the applications that were and were not required for restriction by the average number of entire claims, independent claims, dependent claims, drawings, pages in patent publication and number of domestic combination.

Table 4-3

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Filing	entir	independ	depende:	whol	drawin	domestic	restricti	ce no (∶)
year in	е	ent claims	nt claims	- :e#.	ាម gs េ	combinat	ausonu ov	restricti
Japan	clam	rin neugt d	as to essi	page	ga 80 h	ion 4	require-	be s on per
	s	·		s	:		ment	require
88688QE	: X:R	enciestano	douly, to	novida	gildgs E	រៀបវេឌ្ឍថ	alf savid	ment_
1985~1	10.8	୍ଦ୍ର ି2.3 ୧୫୧	8.5	5.8	11:1	2.4	in4 5 240	05 :47 (4)
987	ia doi	ier.1801 m	de bas di	esad.	ar ere de	Lativeer	tika (1861)	asswip.
1989~1	11.1	2: 5 0 a	a 48. 7 4⊖	5.7	12.6	2:0 iii	ued H ceu	5 5
990	- 100 - 100	immilyes (adyles di		a stronde.	ulqua 200	ou es inc	1,1
1991~	18.3	4.8	○ 13.5°°	7.8	17.3	30.2.9	jed 13:4∆	43
Average	14.4	$\pm 4\% \widetilde{3}.5$ gale	76.10.9 d	6.6	414.7%	ei 2.4 444	mir 24 11 a	21.0 98 -02
since								iyadiiygs
1989	ai ar	w essicio a	iqidiner k	1807	rajne dieksindake	an Ballata	e Mart	}
and the surpe of anity of invention has been expended.								

restricti	oval	independ	depende	overa	drawi	domestic	restricti	no
		ent claims						
require-	ទាយៗដៀ	all Sous	987 818 M	pages	jeor is	ion	require-	on
ment	je hon	von 16 mos	osiborgai	nails :	ទេបស់រុំ 🖭	as atti.C	ment	require
क्षाप्रकृत्र कर	a Justi	tad odi yë	Southless	, yidaa	१ अर्थ हुई।	a sehreivl	l aminio	ment
made	25.3	7.9 (S.	17.4	10.3	23.3	4.0	29	glion R
not	10.9	2.2	8.7	5.6	$^{16}11.7^{\circ}$	$^{ m col}$ $^{ m col}$ $^{ m col}$	Kidhai	145°
made								

It appears from this data that the average figures of each item, except for domestic combination, have been raised after implementation of revised system of multiple claims.

Figures of each item also show considerable rise as to applications to

which restriction was required when compared with those which was not required for restriction.

It is assumed from the rise of numbers of restriction requirement that revised system of multiple claims is utilized in Japanese applications though a big change cannot be seen in number of domestic combination before and after implementation of revised system of multiple claims.

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4-2-2: Analysis of Data

(1) Transition of number of restriction requirements have a state of market

We obtained the ratio of number of applications that restriction were required to number of subject US applications of each term of which result is shown in Fig.4-1.

It was 9.6% as to US applications of which corresponding Japanese applications had been filed between 1985 and 1987, 16.7% as to those between 1989 and 1990, 23.2% as to those in and after 1991, which shows the rising trend of recent years of restriction requirement from USPTO.

And as to US applications of which original applications had been filed in Japan between 1989~1990 and those in and after 1991, the rate of restriction requirements is about the double the average figure of whole US applications.

In 1987, so-called revised system of multiple claims was introduced and the scope of unity of invention has been extended.

While it was 9.6% as described that the US applications of which original Japanese applications had been filed before this introduction (1985~1987) that restriction were required, the figure jumped almost twice to 19.7% as to those after introduction of revised system of multiple claims. This rise may be partly explained by the fact that the scope of unity of invention admitted in Japan is broader after introduction of improved multiple clams than that admitted in US.

escapt for demostic combination, have the average figures of each item, except for demostic combination, have been raised after implementation of revised average of inclines eduing.

Egunes of each frem viso show considerable rise as to applications to

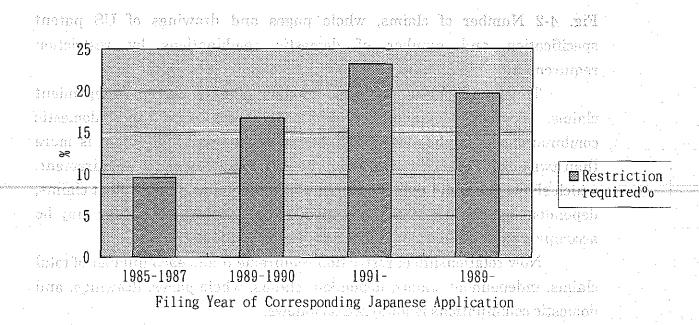


Fig.4-1 Transition in Number of Restriction requirements by Application Year in Japan.

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(2) Comparison of Applications with and without Restriction requirement

dependent claims, whole pages, drawings, and domestic combinations as to applications which made restriction requirement and those which did not. The result is shown in Fig.4-2.

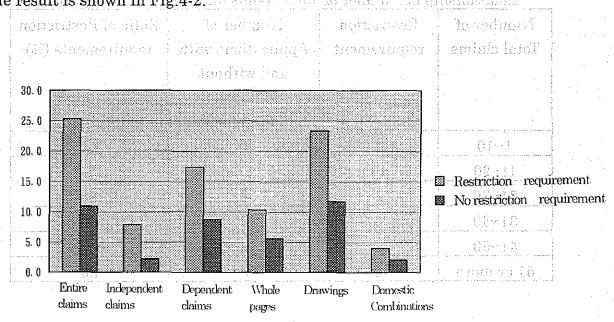


Fig. 4-2 Number of claims, whole pages and drawings of US patent specification and number of domestic combinations by restriction requirement

The figure shows that each number of total claims, independent claims, dependent claims, whole pages, drawings, and domestic combinations of applications which made restriction requirement is more than twice than that of those which did not make restriction requirement, which shows the trend that the increase in total claims, independent claims, dependent claims, whole pages, drawings, and domestic drawings may be accompanied by increase in restriction requirements.

Now relationship of restriction requirement and each number of total claims, independent claims, dependent claims, whole pages, drawings, and domestic combinations is analyzed as follows.

(3) Relationship of number of claims and restriction requirements

We studied the relationship of number of claims (total claims, independent claims and dependent claims) and restriction requests of which result is shown in the table below. Relationship with number of total claims, independent claims and dependent claims are shown respectively in graphical chart of Figs. 4-3, 4-4 and 4-5

Relationship of Number of Total claims and Restriction requirement

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Relationship of Number of Total claims and Restriction requirement						
Number of	Restriction	Number of	Ratio of Restriction			
Total claims	requirement	Applications with	requirements (%)			
		and without	·			
		restriction				
		requirement	And a first the special of the			
1~10	8	93	8.6			
11~20	10	57	17.5			
21~30	2	8	25			
31~40	3	8	37.5			
41~50	2	zis 	66.7			
51 or more	4	5	-80			

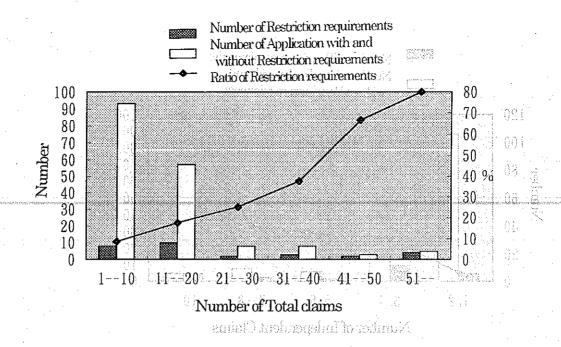


Fig. 4-3 Relationship of Number of Total claims and Restriction requirement multiplicated hope anisity tradequated to redemark to quiencing the tradequated to redemark to quiencing the tradequated to redemark to quiencing the tradequated to the contract of the contract

Relationship of Number of Independent Claims and Restriction requirement

Relationship of Number of Independent Claims and Restriction requirement				
acia Number of 1855	Restriction	Number of	Ratio of	
Independent	i requirement.	Applications with	Restriction C	
Claims	i aveidin bas	and without	requirement (%)	
	reiminteey -	restriction		
	2465000000000	requirement	em magnes, a company of a compa	
1,2	Ĝ	106	5.7	
3,4	12	46	26.1	
5,6	2	7	○ 28.6	
7,8	3	9	∜33.3 €	
10 or more	6	6	100	
(3.5V		<u></u>	Andrews I b	

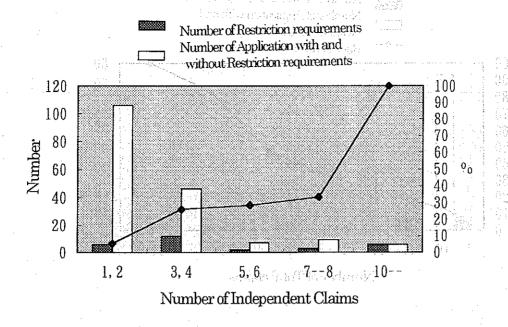


Fig. 4-4 Relationship of Number of Independent Claims and Restriction

Fig. 7-8 Relationaling of Namber of The Friches and De-Leicher requirement

Relationship of Number of Dependent Claims and Restriction requirement

rterationship of 14	Relationship of Number of Dependent Clarins and Restriction requirement							
Number of	Restriction	Number of	Ratio of restriction					
Dependent Claims	requirement	Applications with	requirement (%)					
regueroumat (%)	teedhw bas	and without	amis#O					
	estivalatas em	restriction						
	lessassiaaas	requirement						
0 ∼ 5	ા6(7.0	5.6					
6 ~ 10	(17)	52	13.5					
$11 \sim 20$	8	36	22:2					
21 ~ 30	2	5	40					
31,~(40	3	6	egog 50 c ())					
41 or more	3	6	60					

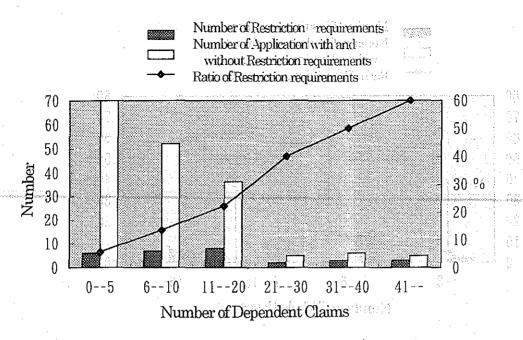


Fig. 4-5 Relationship of Number of Dependent Claims and Restriction requirement

As the increase in number of claims, independent claims and dependent claims at the time of US patent application, number of restriction requirements also rises, which seems to show that an application with more claims is more likely to be ordered for restriction.

It is especially remarkable that the result of this search showed that 100% of applications with 10 or more claims were ordered for restriction.

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(4) Comparison of Number of Pages and Restriction requirement

Here the relationship of number of pages and restriction requirement is studied of which result is shown in following table as well as in a graphical chart in Fig. 4-6.

į.	FreChriste Westerland	i .	<u> </u>
Number of Whole	Restriction	Number of	Ratio of
Pages	requirement	Applications with	Restriction
9.81		and without	requirement (%)
	14 Y 1	restriction	<u>Carriago</u>
48		requirement	
~3	2	40	0° 5 -1
4~6	9,	79	. 33(11.4)
7~15	12	47	25.5
16~	6	8	75



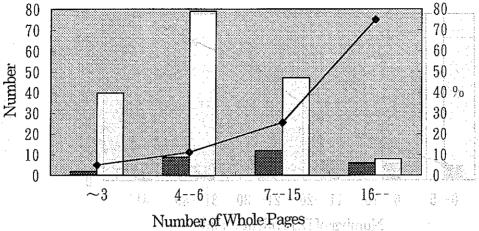


Fig. 4-6 Relationship of Number of Whole Pages and Restriction 1997 and requirements

It is suggested that an application with more claims are more likely to be allowed for restriction from the fact that the number of restriction requirements rises as that of whole pages increases.

claims is more bliefly to be ordered for cestriction.

(5) Relationship of Number of Drawings and Restriction requirements

We herein studied the relationship of number of drawings and restriction requirements of which result is shown in following table as well as in a graphical chart, Fig. 4-7.

Janes Congression Contra	<u>runggang talah di kacimban di kaci</u>	<u>ออกไรเกลาสก โดย จะจำเร็บ สมาคร เก</u>	jan ayî herra hê
inpudigung a bicas ii		Number of Applications with and without	Ratio of restriction
r Seleksii www.caraas	io vodestil	restriction requirement	elostWho asdonyK
2. 0. 1. 1. 0	3. 4. 17. 18 3. 18 18 18 18 18 18 18 18 18 18 18 18 18	22	13.6
1~5	p. 11 2 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	26	7.7
6~10	Room#Gunery	45	8.9
11~20	6	47	12.8
21 or more	14	34	41.2
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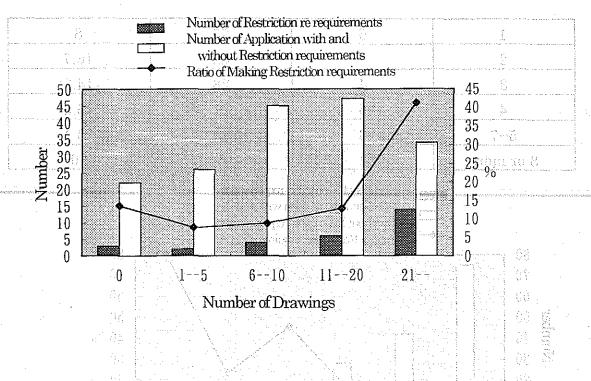


Fig. 4-7 Relationship of Number of Drawings and Restriction requirements

While it can be said that there is a trend that the rise in number of drawings is accompanied by the increase of restriction requirements, it cannot be said that there is direct relationship between the two figures. It seems that the number of drawings is not so closely related with the restriction requirements as number of claims and pages which is suggested by the search result that the ratio of restriction requirements to applications with 21 or more drawings remains as low as 41.2%.

(6) Relationship of Domestic Combination and Restriction requirements

The increase in the object of restricted acquirent agency violation level

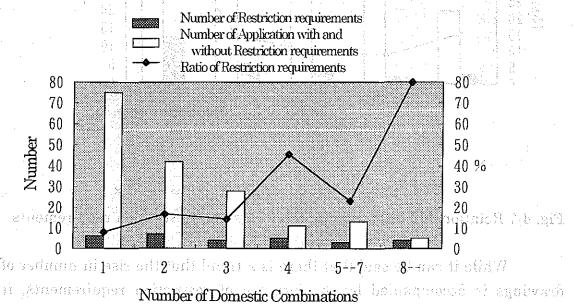
The relationship of number of domestic combination and restriction requirements is studied, of which result is shown in following table as well as in a graphical chart, Fig. 4-8.

application the swatchies requirements were existed one 8.10 13, and 15.

when the number of domestic exabinations is vitible. I district number of

Number of	Restriction	Number of	Ratio of
Domestic	requirement	Applications with	Restriction
Combinations	to been a server consistence	and without	requirement (%)
Richald (Robbinson)	esittoh honorisansa na	restriction	វិទ្ធានប្បទានការក្រសិន
		requirement	axeessis elv bagit.

1	1 ^ '	75	8
2	· · · · · · · · · · · · · · · · · · ·	1 42 67	16.7
3	1 . 1	28	14.3
4	5	11	45.5
5~7	3	13	23.1
8 or more	4	5	80



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Fig. 4-8. Relationship of Number of Domestic Combinations and Restriction, requirements

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The increase in number of restriction requirements remains low when the number of domestic combinations is within 7. Rather, number of restriction requirements when there are 5 ~ 7 domestic combinations are half the number when there are 4 domestic combinations. As to applications with 8 or more domestic combinations, restriction is allowed to 4 out of 5 US applications(80%). The number of domestic combinations to which application the restriction requirements was ordered was 8,10,13, and 15, respectively:

It cannot be said, therefore, that there is mutual relationship between the number of domestic combination and that of restriction requirements except in the case that the number of domestic combinations is excessively high.

4-2-3: Reasons for Restriction Requirements given believe most betales

Among subject applications of this search, number of cases that restriction requirements were ordered is shown by classified reason and proportion to the whole cases as to the 22 applications in Table 4-4 where the classified types correspond those in Table 4-1.

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A-2-4 charaktina in teras at ametri v di Pa valumata anti-regalitation

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Тур	Classified Reasons	Number of	Proportion
e	t yd vaosteriomes, <u>daysaso</u> b to yndssaus ac llow	ac Cases	s = 45 (%) , 200
1	Combination/Subcombination	7	32.3.55%
2:	Apparatus/Process practiced by claimed	p in m 2 iamen	11 8A 9
oid	rapparatus of subsect of off execution the	ni eradədə	ibrogali hrra
்g ந	Apparatus(or process practiced by claimed		
*(O :0)	apparatus)/product	- ma safr (OCC	1-9801)voite
4	Product/Process of Using the product	ធំពមម 3 រាំង មួយ	oslo ə l4 dlum
5	Three Set Claim (Product/Process of	s ceda y co fa s	an oz á s ei H
8 -	Use/Process of Making) was self-modernious	nio ko especiale k	odskýs ož aži
6	Where Link Claim is made as a means to	0	0.898000
	extend scope of unity of invention		
-	Reasons Unidentified	5	23

The most common reasons for restriction requirement is type 1, or "combination and subcombination" followed by type 3 or "apparatus(or process practiced by claimed apparatus and product" and type 4 or "product and process of using the product." The reasons why most restriction requirements were ordered because of such reasons did not become clear from our study of this time. However, it can be said that the number of applications itself is large which include these types of claims as well as that the gap between Japan and US is larger in the requirement for unity of invention. In the case of type 3, for instance, while "product and process of making it" shall meet requirement of unity of invention in Japan, it could be subject of restriction requirement in such cases as "claimed product can be made by materially different process" for which attention should be paid in filing US applications from Japan.

There are five cases for which reasons cannot be classified to any of the six types such as "specific drawing (or working example) should be selected from multiple drawings (or working examples)" and "number of inventions cannot be determined because multiple independent claims and multiple drawings are contained." They are the requirements that do not exist in Japan. Idall at a comparing a lateral of as seem close and the quarter of a lateral of a condition
4-2-4 Completion in terms of quality of US patent specification

Fig. 4-9 shows the transition of number of total claims, independent claims, dependent claims, whole pages and drawings in the specification of US patent application as well as number of domestic combinations by filing year.

As to number of claims, number of total claims, independent claims and dependent claims is all on the rise. The interesting part is that while there is virtually no change immediately before (1985~1987) and after(1989~1990) the amendment of 1987 which introduced revised system of multiple claims, the number jumped three years after the introduction(1991). It is also true of number of whole pages and drawings if not that drastically. As to number of domestic combination, the number remains as low as 2 ~ 3

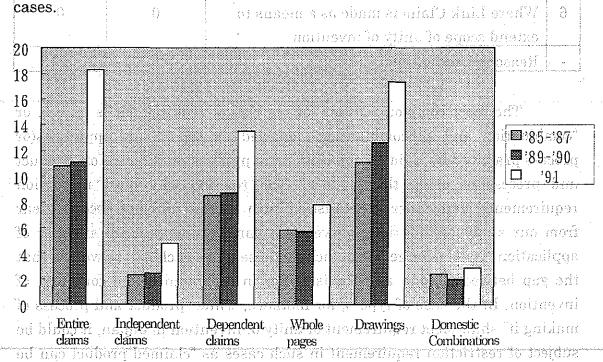


Fig. 4-9 Transition of number of claims, pages and drawings in the specifications of US patent application and number of domestic combination to various and some statement and the specification and number of domestic combination.

the six (gges anch as 'specific drawing (or working axample) should be

It is assumed to be because of increase in claims of original Japanese applications or in supplemental matters for preparing US application that the number of claims, pages, drawings rises while number of domestic combination stays low. In any reasons, it can be said that the contents of US patent applications are getting more completed. As to number of claims, the trend has become conspicuous in US applications when three years have passed since the introduction of revised system of multiple claims.

It can be said that the fact that number of domestic combinations still

remains as small as 2~3 cases even after three years from introduction of improved multiple claims shows that improved multiple claims shows that improved multiple claims have not been fully utilized as a means to prepare a specification that is competent to file abroad without domestic combination.

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fee annuities) in Japan and US

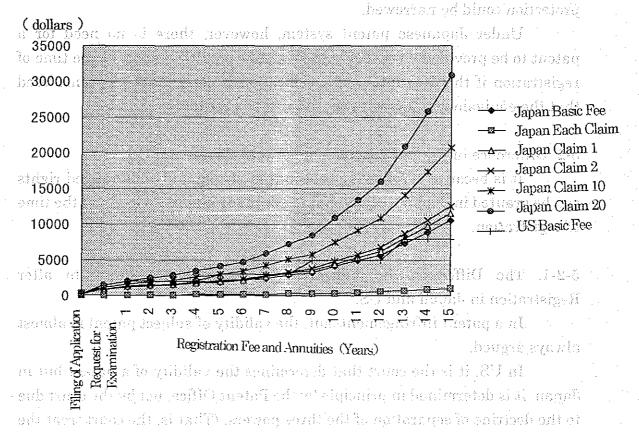


Fig. 5-1 Comparison of Patent Cost in Japan and US of formula and all

and US in patent cost from filing of application until registration. Even after registration, there is not much difference if the number of claim(s) is one or two.

However, the Japanese annuity system is distinctive, which is obvious from the figure above, in that the additional fee is simply added according to the number of claims. For instance, if a patent containing 1, 10 or 20 claims, the official fee containing annuities of 15 years should be widely ranged from some 1 million yen (\$10,000), 2 million yen (\$20,000) to 3 million yen (\$30,000)

The patent cost for one Japanese patent can thus be twice and treble by the number of claims included therein.

Accordingly, when filing Japanese application from US, it is quite important in terms of cost to reduce the number of claims, not just filing the same application as the original US appl

It could be worried, on the other hand, that the rights referred from the Japanese patent with such fewer claims could be weak and the scope of protection could be narrowed.

Under Japanese patent system, however, there is no need for a patent to be provided with such a lot of claims as a US patent at the time of registration if the description of specification is clear. And it is considered that the equivalent rights with the US will be granted.

5-2: Difference in Claim Construction between Japan and US

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It is because of following reason that strong and wide-ranged rights can be granted in Japan without making as many claims as in US at the time of registration.

5-2-1: The Difference in judiciary systems and procedures to after Registration in Japan and US.

In a patent infringement suit, the validity of subject patent is almost always argued.

In US, it is the court that determines the validity of a patent but in Japan, it is determined in principle by the Patent Office, not by the court due to the doctrine of separation of the three powers. (That is, the court treat the

case on the assumption that the patent is valid.) To most placed entire bearings

As to correction of claims after registration, on the other hand, procedures are handled by the Patent Office both in Japan and US.

In US, therefore, since the patentee cannot correct patent claims against the allegation of offensive party in the suit that the patent in question is invalid(though a reissue patent can be granted in US as a result of correction of claims after registration, the patentee cannot maintain the suit because original rights shall be abandoned in the procedure for a reissue patent.), not only such claims with functional expression but also claims with definite mode that are difficult to be revoked are required at the time of registration.

In Japan, on the other hand, the allegation of invalidation of a patent shall be treated by the Patent Office in the invalidation procedure (§ 123 et al) in which the patentee will be granted an opportunity to correct the claims (§ 134(2)). The cost for this correction procedure is far cheaper (49,500 yen + 5,500 yen + n yen (n = number of claims to be corrected)) than annuities, dependent claims with such definite mode are not necessarily required in principle if broad claims with functional expression are secured. Correction at the time of invalidation procedures being filed(accordingly such specification and drawings to meet this correction requirement shall be satisfactory.

5-2-2: Difference in Claim Construction due to Functional Expression between Japan and US.

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As a result of amendments of 1994, claims with functional expression became available in Japan. In US, claims with functional expression are construed within the description of specification and its equivalents pursuant to § 112(6) of US Patent Law and In re Donaldson decision.

In the case of Japan, on the other hand, following issues have to be noted; in south south a larger masses easier of gable it which is built for

- ① There is no provision in Japanese Patent Law that corresponds with § 112(6) of US Patent Law.
- ② According to the Supreme Court decision on March 8, 1991(so-called "Lipase decision"*1) and § 70 of Patent Law which was amended in 1994 to comply with the decision, it is established within the Patent Office as a guideline for examining such claims that "while it is allowable in principle to

consider the description of specification and drawings to clarify the meaning of the terms, it shall not be allowable, if technical matter described in the claims can be in itself grasped clearly, that such consideration be made to further restrict the meaning."

Based on such backgrounds, it is assumed that the claims with functional expression shall be normally construed broader in Japan than in US.

Accordingly, rights referred from claims with functional expression cover only the description of specification and its equivalents and does not cover such matters that have not been recognized at the time of application being filed.

In Japan, on the contrary, since claims consisting of functional expression are regarded as covering subject technical fields if only the technical matters are clear, dependent claims made merely to clarify the claims with functional expression based on the description of specification are regarded not necessarily needed.

However, in compliance with the restriction of amendments (§ 17) provided in the amendments of 1993, it is necessary to state in detail in the specification and drawings the definite structure to attain such function and its operation and effect to be prepared for such events that the court determined the description of technical matters in the claim not clear and correction as described above.

It will be an effective measure, therefore, for obtaining a broader rights with lower cost to reduce the total number of claims by setting claims with functional expression which is in general supposed to be given a broader right as the main claim while leaving the dependent concepts that may define and clarify such claim described merely in specification and drawings.

5-3 Notices of claim drafting for Japanese Patent Applications (Case Study)

The secretarial adjustivation transfer to the second following

For further explanations, a concrete claim drafting for Japanese Patent Application will be studied using a case which was actually filed in Japanese based on US Patent Application.

4,775,593)

In this case, a company of US filed a Japanese Patent Application

with claiming a priority which was based on a US Patent Application. Each of Japanese and US Patent Applications had twenty six (26) claims, which was issued.

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A claim tree of the twenty six claims issued in Japan is shown below:

1: A magnetic recording material (Claims 1-15) Hely (by hear 66-14) markett)

$$\frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}$$

2. A method for making a magnetic recording material (Claims 16-26)

$$\begin{array}{c} 16 - 17 - 18 - 19 - 20 - 21 \\ \text{proposes a survey of the constant of th$$

2.6 can administrate and then remain a six in a real sheet water for a

This case has twenty six (26) patented claims on two categories: a magnetic recording material (Product: Claims 1-15); and a method for making the same (Process For Making: Claims 16-25 and 26). The patented claims comprises: three (3) independent claims (Claims 1, 6 and 26); and twenty three (23) dependent claims (Claims 2-15 and 17-25). Assuming that the Japanese Patent is maintained for 15 years after its issuance, an amount of maintenance annuity fee is calculated on 3,518,700 yen (about 35,187 dollars).

Now we consider necessity of the patented twenty six claims under Japanese Law described above. First, with respect to the magnetic recording material inventions (Claims 1-15):

- (1) These inventions are directed to a certain primer coating, which is cited as an element (ii) in Claim 1, and patentability of the dependent claims are taken into consideration referring to the prior art disclosed in the specification. Accordingly, we think Claims 1 and 7-9 are necessary.
 - (2) Furthermore, Claims 7-9 restrict Claim 1 to merely embody an

element of Claim 1 (an unsaturated fatty acid). It is easy to obtain these claims in correction procedures, as required in later days.

In the view point, we think that only Claim 1 is sufficient for a magnetic recording material at the time of issuance. The way to be an included

Next, claims of methods for making a magnetic recording material (Claims 16-25 and 26) will be studied. Since only difference between the independent claims (Claims 16 and 25) is sequence a process (iii) of Claim 16 and a process (ii) of Claim 26, these two claims can be rewritten to a claim as attached. Furthermore, Claims 17-25, which depend from Claim 16, does not clarify the point of the making method invention but further point out the product invention. Therefore, we think that these dependent claims are not necessary.

Consequently, we consider that only one claim attached is sufficient for a method for making a magnetic recording material at the time of issuance.

(Rewritten Claims 16 and 26 into one claim) A method for making a magnetic recording material comprising the steps of:

- (i) making a polyester sheet including pushing out an unstable polyester resin into a sheet form, and then cooling the resin;
- (ii) making an one-axis oriented polyester film including orienting the and be polyester sheet in the longitudinal direction;
- (iii) making an two-axis oriented polyester film including orienting the insection one-axis oriented polyester film; washed (in which is which a section is
- (iv) heat-setting the two-axis oriented polyester film; (5) and the two-axis oriented polyester film;
- (v) after the step (iv), applying a ferromagnetic coating on the film, made wherein the ferromagnetic coating comprising; the second of the second
- (a) a solvent selected from tetrahydrofuran, methyl ethyl ketone. methyl isobutyl ketone, and cyclohexanone,
- phangen (b) ferromagnetic particles, and words to be sold and one made coordorg material feventions (Shahm: 1-12).
 - (c) pre-polymer;
- (vi) providing a coating comprising ferromagnetic particles dispersing assists in a polymeric binder by bridging the pre-polymer, and in the basis
- (vii) between the steps (i) and (ii), or the steps (ii) and (iii), applying a water soluble salt prepared from a PET adhesion-promoting primer having 10 to 18 carbon atoms on the polyester sheet or the one-axis

In this case, we conclude that two claims are necessary at the time of issuance, that is one is of the magnetic recording material and the other is of a method for making the magnetic recording material. With respect to other claims, it is sufficient to give disclosures in the specification and drawings in order to satisfy conditions required on the correction appeal procedure in later days.

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An amount of maintenance annuity fee for these two claims, if patented, may be estimated 1,149,900 yen (11,499 dollars) for 15 years. That saves 2,368,800 yen (23,688 dollars) comparing to maintaining twenty six claims. We may say that the scopes of protection between two are not substantially different.

By the way, generally speaking, an application which is primary filed in US and secondary filed in Japan fully provides with dependent claims similar to the present case, but it is not frequent that an application which has plural priorities using wide unity of an application in Japan. Not only the unity of application is wide, but also the claim fee is calculated irrespective of independent and dependent claims. Accordingly, plural related inventions which have to be independently filed in US is filed in an application in Japan so that the fee to obtain Japanese Patent can be reduced, we guess.

In US, additional fees are required for multiple dependent claims (multi-link claims). No multiple dependent claim which depends from another multiple dependent claim is permitted in US. On the contrary, no fee is required for multiple dependent claims and multiple dependent claims depending from another multiple dependent claims in Japan. We think that to positively use these types of claim can get broad rights with low costs. For example, in this case, Claim 4 is rather rewritten such that Claim 4 depend from both Claims 2 and 3.

*1 Lipase decision (No. S 60(Gyo Tsu)3, Supreme Court, 03/08/91) (3)

The decision clarified the meaning of specification in determining the technical scope of a claim.

ustrials transposed ben agrado

"The subject matter of claimed invention should be found and based on the claim unless any special situation arises.

Consideration of description in the specification will be proper only when there is special circumstances such as the technical meaning of the claim cannot be understood directly or clearly or it is obvious at a glance that the description is misstated in view of description in the specification."

6: Conclusion was the conjugate and thinks of the state of the many

As a result of examining the claim drafting with a view to obtaining and maintaining effective patent rights, this study has clarified the notices of filing applications to each countries. We thereunder state the details.

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6-1: Notices to be taken filing US application from Japan and the second
The fact that the definition of unity of invention is different between Japan and US. As indicated in Table 4-1 and 4-2, the definition of unity of invention is narrower in US and there are additional requirements. Consequently, the more applicant pursues to make a comprehensive application as to unity of invention as practiced in Japan, the more restriction requirement is ordered as a result of which divisional application needs to be filed. It means that the additional fees that have been paid for the claims under examination (claims other than independent claim 3 and dependent claim 17) are wasted and another expenditure will be imposed in accordance with the number of divisional applications. This, in view of cost, is a material problem. Check the claims in actual US applications regarding following items.

(1) Whether there are too many claims of religious medianous inferitions restaura

An application with more claims is more likely to be required restriction. This study especially showed that an application with more than 10 independent claims is ordered for restriction requirement without fail. Better to consider some of too many independent claims be transformed to dependent claims with the consideration of the balance of independent claims and dependent claims.

- (2) (In the case an application contains combination claim and subcombination claim, finding of patentability in both claims is necessary. Whether or not there is patentability and utility in both claims. If there is, the application can be subject of restriction requirement.
- (3) In the case of an application relating to different categories, whether or

not it is applicable to materially different matter. If it is, the application can be subject of restriction requirement. In an advance and which it is about materially different matter. If it is, the application can

- (4) An invention relating to § 37(5) of Japanese Patent Law does not meet not only US but also PCT requirement for unity of invention.
- (5) Whether the application is too long

The more pages an application contains, the more likely restriction requirement be ordered. It is important that the description is concise and clear solely containing essential matters.

and the transfer the action and it has been an executed from the apparatus of them and that the fit of t

6-2: Notices to be taken filing Japanese application from US and process as a second s

The fact that the number of claims is directly reflected to the patent cost. It should be also noted that claims for dependent concept are not necessarily needed if claims for superior concept are described clearly enough. In view of effective patent maintenance and management, an application with fewer claims is more desirable. Based on these viewpoints, check the claims of actual Japanese patent applications regarding following items;

(1) Whether or not the claims are unnecessarily many

Remember again that claims for dependent concept are not necessary if claims for superior concept are stated. Necessary measures can be taken later in the correction procedure if description regarding actual mode is made fully and clearly in the specification and drawings.

(2) Whether or not multi-link claim or multiple dependent claim citing multi-link claim is available

It is effective in reducing the number of claims and saving patent cost. Appropriate care should be taken, however, since too much utilization may prevent the understanding of invention and cause any trouble.

(3) Whether a related group of inventions is made up in one application

The scope allowable for unity of invention is relatively broad. It will be very effective to save the cost if making the most of this feature since the cost will largely be saved to half or third as the number of combination rises. An overwhelming effect can be drawn by the decrease in number of claims.

(4) Whether means-plus-function claim or functional/operational description has been considered

This type of claim is construed broader than in US and will be very advantageous if the rights are actually granted.

We have thus concluded the notices by the country of application being filed. While there could be other notices regarding practical claim drafting, we will be happy if this study is referred to as one of the bases for determination in currently acclaimed economic assessment of intellectual properties.

noiperdaen yishii erana anti kaimman mitmitaja na segang seam sii?' kan osimoo ni mingimeel siin nii taamaqai si ti homboo oli jasamutupee 7. Bibliography

- (1) The Outline and Practice of 1986 Act to Amend Part of Patent and Other Laws (April 1995, Japanese Patent Office)
- (2) Unity of Invention, Material No.188 (April 1991, Japan Patent Association)
- (3) Partly Amendment of Patent and Other Laws, Material No.151 (January 1988, Japan Patent Association)
- (4) Takayoshi Nijima, Transition of Practice of Section 36, Amendment, Division and Unity of Invention (February, 1996)
 - (i) Whother as and the character dances carrier as a

Reasemblar again (bid claims in dependent concept use nor necessary if claims for superior concepts are nor necessary if claims for superior concepts are successary income and concepts are preparation procedure if description regarding under lander is are to fully and claim of the claim.

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This effective in reducing the madecratic hites and squing patent cost. Appropriate care chould be taken, however, since for much will sation over provent the understanding of investment constants.

(3) Whethor a related group of arcentians is mode un to one application.

The House of playing to self the religious of the spice of electrical ages, with a self of the self of

An everymentary effect and no arover by the degrees in branches is decime.
(4) Whether means-plas-fonction chain of following examples description.
(as been considered.

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⑩日本国特許庁(JP) 邮符許出願公告

@特許公報(B2) 平5-26248

證別記号 广内整理番号

G 11 B 5/704 5 5 5 7303-5D

はい $_{1}$ で 知り $_{1}$ 5/842新正と 起 は数や記 $Z_{
m SD}$ = $7303 <math>_{
m C}$ 5D で 知识 各語のの。第 以のは第)数決重を及る書

京認を主張中国公主共工限数数以上のロモニーション人工共享で設定変数で**請求項の数:26~(全8頁)**

竹、発付底・イスングネート

89発明の名称 **優れた剝離強度を持つ可接性磁気記録媒体**

LATE OF THE STATE OF THE SET

顧 昭63(1988) 6月9日 @昭63(1988)12月21日

ひん がほない 支援のさい ときゅうしょう とはとる

医外侧区 电磁带对路线 直接接收入 计分类形式 一大

の特許請求の範囲

1一(1) 配向したポリエステルフィルム、

- (ii) 炭素数10~18をもつ不飽和脂肪酸の水溶性ア ルカリ金属塩を含み該ブイルムの少なくとも一 方の側に付与されたプライマーコーティング、
- 回 重合体パインダー中に分散させた強磁性体粒 子からなり、該プライマーコーティング上に付 与された強磁性体コーティッグ、主義質的量量

を含んでなることを特徴とする優れた剝離強度を 10 持つ磁気記録媒体。当り自由はる主選率温を

- 2 該強磁性体粒子が酸化第二鉄、二酸化クロム 及バリウムフェライトから選ばれた粉末からなる 請求項1記載の磁性記録媒体。
- 3 該磁性体粒子が酸化第二鉄粒子がらなる請求 15 項2記載の磁気記録媒体。
- 4 該酸化第2鉄粒子がその表面にコパルトを吸 着したものである請求項2記載の磁気記録媒体。
- 5 該強磁性体粒子が二酸化クロムからなる請求 項2記載の磁気記録媒体。
- 6 該配向したポリエスデルフィルムが二軸配向 したポリエチレンテレフタレートフィルムである 請求項1記載の磁気記録媒体。

的复数美国医学生工作的复数形式 医二甲基甲醇

2017 とうそうしゅうできまりは長期側一切は肩 数一成りで報子報処理のできょうテルフィルルを最 ぶきに関連して工作資料 はまはなずまびららぶ

7 該不飽和脂肪酸がオレイン酸、パルミドニル 酸、リシノール酸、ペトロゼリン酸及びラウリン 酸から選ばれたものである請求項 6 記載の磁気記 **録媒体。**

4.2 - \$1.2 高麗波下のの下が設定を終します。 $g(\mathcal{B})$ の説記 自由対象記述 $oldsymbol{2}$ いかルースというマサキ

- 8 該不飽和脂肪酸がオレイン酸である請求項で 記載の磁気記録媒体。
 - 9 該プライマーコーティングがオレイン酸ナト リウムからなる請求項8記載の磁気記録媒体。
- 10 該重合体パインダーがボリウレダン/ポリ エステルプロック共重合体からなる請求項6記載 の磁気記録媒体。
 - 11 該ポリウレタン/ポリエステルプロック共 重合体が
- (A) 加水分解安定性を持つ二官能性アルコール と、アジビン酸、アゼライン酸、1,12-ドデ カン二酸及びそれらの混合物から選ばれたジカ ルポン酸との反応生成物であり50~250のヒド ロギシル数を持つヒドロギジルー末端ボリエス
- 20 (B) 1, 4ープタンジオール、1, 3ープタンジ オール、1,5ーペンタンジオール、1,76一 ヘキサンジオール及び 2, 5 ーヘキサンジオー ルから選ばれた第1級又は第2級アルコールか

型プロスト A A EMPEROR は A TA 品 跨越也很高的

((1)) 电磁体器本目的

· 南 公 珍 出 模 取**3**0

剤の合計のヒドロキシル数は130~300である、

(C) 芳香族ジイソシアネート

レタンセグメントの量が37~40重量%でポリエス テルセグメントの分子量が500~1500をもつ強磁の方法。 性コーティングを生ずるように選ばれるものとす(認意) 意図 該配向 もたまり エステルフィルムが 三軸砲 からなり。且つ該粒子が該強磁性コーティングの。10%記載の方法。3 重量当り90~88%の範囲で存在する請求項10記念の(1.9) 該水溶液の塗布によってつくられたスライ 戴の磁気記録媒体。

- 12 該2官能性アルコールが1,4-シクロへ キサンジメタノールである請求項11記載の磁気
- 13 該鎖伸長剤が、1,4ープタンジオールで ある請求項12記載の磁気記録媒体。
- 14 該芳香族ジイソシアネートが4, 4-メチ レンーピスー(1,4-フェニレン)ジイソシア ネートである請求項11記載の磁気記録媒体。
- 15 重合体バインダー中に分散させた非強磁性 体粒子からなるバックコート層を有する請求項1 1記載の磁気記録媒体。
- 1.6 (i) 無定形のポリエステル樹脂をシート状 に押出し次いで該樹脂を冷却してポリエステル シートをつくり、
- (ii) 次いで該ポリエステルシートを長手方向に配 向して一軸配向ポリエステルシートをつくり、
- □ 炭素数10~18を持つ不飽和脂肪酸の水溶性ア ルカリ金属塩を含む水溶液を該シートに塗布 30 る請求項22記載の方法。
- W 次いで該一軸配向ボリエステルフィルムを横 方向に配向して二軸配向ポリエステルフィルム ・をつくり、
- (v) 該二軸配向ポリエステルフイルムをヒートセ 35
- - (a) テトラヒドロフラン、メチルエチルケト ン、メチルイソブチルケトン及びシクロヘキ サノンから選ばれた溶媒、
 - (b) 強磁性体粒子、
 - (c) ブレポリマー

からなる強磁性体コーティング組成物を該フィル ム上に塗布し、

- 一中に分散した強磁性体粒子からなるコーティ 日本日本(2001)日日四日 日本公司 日本日本日本学者グを生ぜしめる福一
 - (17) ことを特徴とする磁気記録媒体の製法。 コーニ
- との反応生成物(但し(A), (B), (C)の割合はポリヴ 3 2017 工程(II)の後に且つ工程(III)の前に該フイルム シートをコロナ放電処理に共する請求項16記載
- る)であり、該強磁性体粒子が二酸化クロム粒子のの向ボリエチレンテレフタレートである請求項17
 - マーコーテイングが乾燥重量基準で約1×10⁻¹× 2×10×-51b。/平方インチの重量で存在する請 求項18記載の方法。
 - 15 20 該プライマーコーテイングがオレイン酸の アルカリ金属塩からなる請求項19記載の方法。 2.1 該プライマーコーティングがオレイン酸ナ トリウムからなる請求項20記載の方法。
 - 2.2 該プレボリマーが、大きの監督の組入事
 - 20 (A) 加水分解安定性のある二官能性アルコールと - ジカルボン酸との反応生成物であるヒドロキシ -- ル末端ボリエステル、 -- ミニョ - ウェミベモ

 - (C)。芳香族ジイソシアネート。
 - 25 からなる請求項16記載の方法。
 - 23 該二官能性アルコールが1,4-ジクロ令 キサンジメタノールである請求項22記載の方
 - 24 該鎖伸長剤が1,4-ブタンジオールであ
 - 2.5 該芳香族ジイソシアネートが4, 4-メチ レンーピスー(1, 4ーフエニレン) ジイソシア ネートである請求項22記載の方法。
 - 26 (i) 無定形のポリエステル樹脂をシート状 に押出し次いで該樹脂を、冷均してポリエステ ルシートをつくり、
 - (ii) 炭素数10~18を持つ不飽和脂肪酸の水溶性了 ルカリ金属塩を含む水溶液を該シートに塗布
 - 40 ⑩ 次いで該ポリエステルシートを長手方向に配 向して一軸配向ポリエステルシートをつくり、
 - (b) 次いで該一軸配向ボリエステルフイルムを横 方向に配向して二軸配向ボリエステルフイルム をつくり、

(v) 意該二軸配向ボリエステルスイルムをヒートセ 据**学表达**对于美国最大美国工作的"美国人超过

競売していまるまという。 こうの とりまる ラステル 監

- fl(a)。テトラヒドロフラン、メチルエチルケト。 一 シ、メチルイソプチルケトン及びシクロヘキ 5 共主
 サインから選ばれた溶媒、ストムトー・コー語
 製
 - (6) 强磁性体粒子。) 一下) 超大路域 內域區 3
- EIC プレポリマース 日本年記を下海とします。

からなる強磁性体コーティング組成物を該フィル

M 該ブレボリマーを架橋させて重合体バインダ 会会中に分散した強磁性体粒子からなるコーティ。 一上文グを生ぜ似める。「中華記述」は「自己変更」は

(産業上の利用分野)/ 小川へ出たしていたい 温の

『本発明は磁性層を塗布したポリエステル基材か』 らなる可撓性磁気記録媒体に関する。より詳しく は本発明は重合体がインダー中に分散した強磁性。 体粒子からなるコーティング組成物を塗布する前。20 着の米国基準を発表した(ANSIブロジェクト に接着促進プライマー層を塗布したボリエステル。 フィットムに関する。こうはかり、カーサリーシャンス

(従来技術)

《オーデイオ、ビデオ、コンピューターテョブ等 ステルフイルムに酸化鉄、二酸化クロム粒子等の 強磁性体粒子の溶液と、テトラヒドロフラン、メ チルエチルケトン、メチルイソブチルケトン又は シクロヘキサノン等の強溶媒にとかしたポリウレス ている。強溶媒は通常ボリエステル表面の強磁性 体コーテイングに対する親和性を増まために用い られている。この溶媒は通常ポリウレタンプレボ リマーを乾燥する間に除かれる。このははまった。

※通常「磁気デープ」と総称する可撓性磁気記録。35 媒体の製造につかわれるパインダーはポリウレタ 20mまりビニル類及びボリウレタン/ボリビニル。 グラフト共重合体である。他の重合体も最適の硬 度、可挠性、接着性をうるために加えられうる。 イング組成物中に通常加えられる。 こうこうほうこ

。磁気テーブは厳正な物理的、化学的及び磁気的。 性質をもつことが要求される。要求される物理的 性質には許容される摩擦係数、高い弾性率と引張

強度、すぐれた摩耗抵抗性が含まれる。重合体バ インダーはポリエステル基材に接着する必要があ り強磁性体粒子と化学的に相溶性にして長期間安

定である必要がある。最後に磁気テーブは高いデ ータ貯蔵容量をもつ必要がある。

近年磁気テープ製造者は垂直記録、デイジタル 記録やトラック幅の減少等の記録フォーマット技 術の進歩に適応するため可撓性磁気記録媒体の情 報密度の増加や全体の品質向上を指向している。 <u> 4上に塗布し、イー・ディスト 真の中で アルドル ディー 10</u> 彼らはポリエステル基材の改良、とりわけ機械的 性質にすぐれ、表面がより平滑で強磁性体コーテ イングに対する接着性にすぐれたより薄いフィル ムの提供を求めている。またより微細な粒子とよ り高い圧縮性(コエアシビテイ)をもつより薄く 発明の詳細な説明。第一章では、『大学』、『大学』、『大学』、『大学社社性体コーディングの開発も要求されて

この開発努力の一部としてザ・アメリカンナシ ヨナル・スタンダード・インスカチュート (ANSI) はテープ基材に対するコーテイング接 井488、第3集、1985419)。この提案された基 準は強磁性体コーティングがテープ基材から剝離 するに要する強度としてテーブ幅の0.12N/m (0.691bs/インチ) 以上を要求している。少くと の可撓性磁気記録媒体は、通常、三軸配向ボリエ。25、も日の磁気デニブ製造者が0.691bs/インチ以上 の剝離強度を示す磁気テープをつくつているが、 市販されているかなりの磁気テープはこのANSI 基準を満していない。これでは多くのでは、

- 接着性向上への対処としてはブイルムに強磁性 タンパインダープレポリマーを塗布してつくられ。 30。 体コーディングを塗布する前にフィルム表面をコ ロナ放電処理するものがある。この方法は可撓性 磁気記録媒体をつくる際に用いるのと同様の揮発 性溶媒の存在下に高電圧電気機器を用いるため火 災や爆発の危険があり好ましくない。

一別の方法はポリエステルフィルムと強磁性体コ ーテイングの間に接着剤又はプライマ一度を介在 させる方法である。たとば米国特許3215554はブ ライマー層として塩化ビニリデン/アクリロニト リル共重合体を開示し、また米国特許3387995は また潤滑剤((分散剤、)架橋剤(硬化剤))もコーラ、40。テレスタル酸とイソプタル酸とエチレングリコー ルのポリ結合体を開示している。米国特許 3661874はエポキシ化したポリプタジェンのアミ ン化反応生成物の使用が接着性を高めることを閉 示している。最後に、米国特許4210703はカチボ

ン重合したエボキシ樹脂が接着性を改良しまた磁 気デーブの製造で用いた強溶媒によるポリエスデ ル基材からの低分子量オリゴマーの抽出を防ぐこ とを開示している。

(発明の開示) はいきょうかなりにはるほども一

超越感 医耳马斯 人名伊勒

・本発明は、自然開発型は登録が、一个提供等点。

- (i) 配向したボリエステルブイルム、 こうかか
- (ii) 炭素数10~18をもつ不飽和脂肪酸の水溶性ア ルカリ金属塩を含み該フィルムの少なくとも一 · 表上表示的原则的不是一个问题。这个个心理的
- **団 重合体パインダー中に分散させた強磁性体粒** 子からなり、該プライマーコーデイング上に付 与された強磁性体コーティング、

持つ磁気記録媒体に関する。

好ましい態様において、本発明は、

- (i) 二軸配向ポリエチレンテレフタレートフィル **夏**美工作用一位在京都中经常第二十五年(1866)
- なくとも一方の側に付与されたプライマーコー 部**ディング**版文・作品 といとり、市場推設語句景
- 回 W加水分解安定性のある二官能性アルコール とジカルボン酸との反応生成物であるヒドロギ 香族ジイソシアネートの反応生成物である熱可 塑性ボリウレタン/ボリエステルバインダー (ここでWJ, (B), (C)の割合は、分子量約60000以 上のポリウレタン含量が37~40重量%でポリエ 『ステズゼグメントの分子量が約500~1500であし30 い。きょく こじゅんどうてきゅうしゃくく トハコト るポリエステル/ポリウレタンを生ずるように 選択される) 中に分散させた二酸化クロム粒子 からなり該プライマーコーテイング王に塗布さ れた強強性体質一ティング、英生経緯的景観の実

からなる優れた剝離強度を持つ可撓性磁気記録媒 35 体に関する。

本発明で用いられる好ましい配向ポリエステル フィルムはポリエチレンテレフタレートからつく られたものである。 もちろんエチレングリコー ル、ブタンジオール又はその混合物のようなグリー40 コールとテレフタル酸又はテレフタル酸と他のジ カルボン酸(たどえばイソスタル酸、ジラ症にジニ 酸、セパシン酸又はそれらのポリエステル形成性 均等物)との混合物との重縮合で得た結晶化可能

なポリエステル等からつくられたフィルムも同様 に用いうる。ポリエステルは好ましくはかかる樹 脂からつくられたフイルムの加工性向上用の非強 磁性無機粒子を含有する。かかるポリエステルは 米国特許3821156及び3884870に開示された方法で 好ましくつくられる。このフィルムは周知の手段 と周知の装置を用いてつくられずる。『美麗』

たとえば粒子充填ボリエステルを溶融し、研磨 した回転キャストドラム上に無定形シートに押出 一方の側に付与されたプラネマーコーテイング。 10 してポリエステルのキヤストシートをつぐる。 つ いでこのフィルムを、一軸配合フィルムの場合に は、押出方向(機械方向)又は押出方向と垂直方 向(横方向)に一軸延仲する。二軸配向フィルム は長さ方向と横方向の両方向に延伸してつぐられ を含んでなることを特徴とする優れた剣雑強度を 15 る。キャストシートの第一延伸工程はされら2つ の直角方向のいづれかになされる。フィルムに強 度とタフネスを付与するために用いる延伸倍率は 1又は両方向に最初のキャストシート寸法の約 3.0~約5.0倍が好ましい。より好ましい延伸倍率 ⑪ オレイン酸の水溶性塩を含み該フイルムの少 20 はキャストポリエステルシートの最初の寸法の約 3.2~4.2倍である。延伸操作は約二次転移温度か らポリマーが軟化又は溶融する温度より低い温度 (首先注音》) の範囲である。

所望により、延伸後、ボリエステルフィルムを シル末端ボリエステル、(B)鎖伸長剤、及び(C)芳 25 結晶化するに必要な時間フィルムを熱処理する。 結晶化はフィルムに安定性と優れた引張り特性を 付与する。ポリエチレンテレフタレートを熱処理 する場合は、約190℃~240℃、より好ましくは約 215℃~235℃の範囲で熱処理することが好まし

> 本発明のアルカリ金属塩プライマーコーテイン グはフィルム製造の次の3段階の1つでインライ ンで水溶液として塗布しつる。その段階とは、た とえば米国特許1411564に開示されているようない 無定形シートのキャストと第1段延伸の間の予備 下ロー段階、たとえば米国特許4214035に開示さ れているような、一輌延伸後であるが二輌延伸前 であるインタードロー段階、又は二軸延伸後でプ イルムの巻取り前のポズトドロー段階である。通 常延伸又は最終コンディショニング段階の前又は その間に付与される熱は水又は他の抑発分を蒸発 するに十分なものであり、それによってプライマ モコーティングは乾燥する。但しコーティングが かかる加熱工程後に発布された場合は別途の加熱

工程が必要である。
トラーデーには、カールのです。

一の好ましい態様においては、フィルムを一軸 延伸して後、二軸延伸する前にプライマーコーテ イングを塗布する。より好ましい態様では、ポリ エステルフイルムを塗布前に長さ方向にまず延伸 5 する。この好ましい態様では、長さ方向に延伸後 公知の適宜の手段によってフィルムへの塗布を行 なう。たとえばローラーコーテイング、スプレー コーテイング、スロツトコーテイング、含浸コー ラピアローテーコーテイングによって塗布する。 また一軸延伸したフィルムを塗布処理する前に、 米国特許3520959、3820929、及び4028032に開示 されているようにコロナ放電装置によって電気コ ステルフイルム表面の疎水性が減少しポリエステ ルフィルム表面へのプライマーユーティングの接 着性を一層改良する。

十記したように、炭素数約10~18をもつ不飽和。 に対する接着促進プライマー層としての効果を示。 す。「水溶性」なる語はその塩が室温で通常の水 道水に、水100∞当り少なくとも0.4%、より好ま しくは水100∞当り20 8以上溶けるべきであるこ 酸、バルミトール酸(palmitoleicacid)、リシノ ール酸及びベトロセリン酸 (petroselinic acid) のナトリウム又はカリウム塩がある。オレイン酸 ナトリウムとオレイン酸カリウムが最も好まし

> PETプライマーコーテイングとして用いる塩 はまた配向したポリエステルの乾燥やヒートセツ ト中にみられる200°C以上の温度において比較的 熱安定性を示す必要がある。熱安定性及び水溶性 ウム (シスー 9ーオクタデセン酸のナトリウム 塩)は特に好ましい水溶性塩である。

上記したように、本発明のプライマーコーティ ングは水溶液として、また固体濃度約0.2~15重 量%、好ましくは約0.3~6重量%で、基材のボ 40 リエステルフィルムに塗布される。好ましい固体 濃度は最終乾燥コーテイング重量がフイルム表面 1平方フィート当り約1×10 ~2×10 bsに なるような濃度である。より好ましくは1平方フ

イート当り約2×10⁻⁷~7×10⁻¹lbsであり、中 心的なものは1平方フィート当り9.6×10-71bsで ある。

本発明のコーテイングはフイルムの一方又は両 方の面に塗布されるか、又は一方の面に塗布し他 方の面は、米国特許4214035に開示されているよ うに、熱硬化性アクリル又はメタクリル樹脂等の 異なるコーテイングが塗布される。またある場合 にはフイルム表面に既に存在する異なるプライマ テイング等が用いられる。好ましい態様では、グ 10 ーコーテ企ングの上に途布することもできる。た とえば米国特許3819773に開示されている熱硬化 性アクリルコーテイングの上に塗布することがで きる。例如:「自由はは日本の自由は日本は、日本の

本発明の水溶液は本質的に上記に定義した塩か ロナ放電処理する。コロナ放電処理によりポリエ 15 らなりその接着促進作用を損なうような他の成 分、たとえば粒状物質や、上記塩が乳化剤や分散 剤として少量存在するような態様における重合体 成分は含有しない。しかし「本質的になる」なる 用語は水溶性染料、田調節剤等の他の少量の水溶 脂肪酸の水溶性アルカリ金属塩はPETフイルム 20 性成分の存在を排除するものではない。好ましく はこの水溶液は水(脱イオン水又は水道水等)と 約20重量%~約10重量%の上記水溶性塩の2者 からなる。

上記したように、このプライマーを塗布したポ とを意味する。好ましい水溶性塩にはオレイン 25 リエステルフイルム上に強磁性体コーテイング担 成物を塗布して本発明の可撓性磁気記録媒体をう

> 強磁性体コーテイング組成物は強磁性体粒子 と、テトラヒドロフラン、メチルエチルケトン。 30 メチルイソプチルケトン又はシクロヘキサイン等 の強溶媒にとかしたプレポリマーとからなる。テ トラヒドロフランとシクロヘキサノンの混合物が 特に好ましい。中国会社的成功主义。以下国会会会

強磁性体粒子は強磁性体コーテイングをつくる にすぐれ、入手容易である点でオレイン酸ナトリ 35 のに通常用いられている適宜の強強性体粒子でよ い。かかる粒子には針状で一FezOa、コバルトを ドープ又は吸着した針状ギーFeiOi、二酸化クロ ム及びパリウムフエライト (BaO・6Fe₂O₃) 等 がある。心臓の食をあったれるものとしゅうと知

> 重合体バインダーに分散させた強磁性二酸化ク ロム粒子が特に好ましい。二酸化クロム粒子は、 たとえば水の存在やヒドロキシルやアミンのよう な易酸化性官能基の存在によって起こる還元性分 解に対し安定化してあるものでも安定化してない

AND SERVED

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ものでもよい。米国特許3512930及び3529930に開 示されているような安定化した粒子がより好まし、

一通常磁気テーブ製造者は磁気性能を最大にする ようなるべく多くの二酸化クロムを付与したが 5 る。しかし過剰の二酸化クロムは摩耗抵抗を下げ 酸化物の脱落(オキサイドシエド)をもたらし、 それに伴ない強磁性体粒子が磁気テーブからテー ブ処理装置の表面上に移ったりする。オキサイド ためる。これでは、日本は、日本のでは、日本のでは、日本の

本発明の好ましい強磁性体コーティングは二酸 化クロムを70~90重量%、より好ましくは80~90 重量%含有する。好ましいポリウレタンパインダ である。これら本集制は、今日日共会社は立ちに、

ポリエステル基材に強磁性体粒子を保持するた めに通常の可撓性磁気記録媒体で用いられている 適宜のバインダー系を本発明でも用いることがで 常ポリウレタン、ポリピニル、及びポリウレタン とポリビニルのプレンドもしくは共重合体からな る。

ボリエステルーポリウレタン(熱可塑性エラス トマータイプ) は可撓性磁気記録媒体用バインダ 25 ーとして広く用いられている。これらは化学的に 異なる単位のセグメント又はブロックからなる。 比較的軟質のポリウレタンセグメントはエステル 結合単位の構返しシリーズからなりそれ自体単鎖 長重合体である。ポリエステルセグメントは二官 30 能性カルボン酸と二官能性アルコールとの反応で つぐられ末端は実質上アルコール基となる。ポリ エステルセグメントは通常500~4000の分子量を 持つ。これは4又は5のエステル単位から20のエ ステル単位からなる鎖に相当する。この軟質ボリ 35 エステルセクメントの長さが増すと一般にバイン ダーの弾性が増す。一般に重合体バインダーの低 温特性及び弾性特性を決めるのはポリエステルー

ニボリエステルーボリウレタンパインダーの他の 40 成分は比較的硬質のポリウレタンセグメントであ る。この部分は軟質ポリエステルセグメントが示 す化学的及び機械的挙動とは顕著に異なる挙動を 示す。一般にミポリウレタンセグメントは200℃

近くの融点をもつ硬質でリジッドな重合体であ る。このポリウレタンは通常、4,4ージフエニ ルメタンジイソシアネート(MDI)のようなニ 官能性芳香族ジイソシアネートを1、4ープタン ジオールのような二官能性アルコールとの反応で つくられる。ポリウレタンは溶媒系の磁気媒体コ ーテイングに用いるポリエステルーポリウレタン の場合は通常非常に短い鎖長をもつ。これはテト ラヒドロフランやメチルイソブチルケトン等の磁 シエドはエラー率を高めまたテープ処理装置をい 10 気テープコーティングの製造に通常用いられる溶 媒にポリウレタンが特に可溶ではないことによ る。またポリウレタンセグメントの長さが増すと 硬度、モジュラス及び流動温度が増し、弾性とタ フネスが減ずる。可撓性磁気テープではパインダ 一を用いる場合の二酸化クロムの最適量は約84% 15 一が磁気記録の要求に合うように種々の性質をバ ランスさせることが求められる。

- は R · Bradshaw の 米 国 特 許 4525424 (1985.6.25) 「ポリエステルポリウレタンパイン きる。上記したように、市販のパインダー系は通 20 ダーと二酸化クロム顔料を有する可撓性磁気記録 媒体」に開示されており、本発明でもそれらが用 いられつる。上記米国特許に開示されているよう にこのポリエステル/ポリウレタンパインダーは (A) 加水分解安定性を持つ二官能性アルコール、 がましくは1、4-シクロペキサンジメダンニ ル、とアジビン酸、アゼライン酸、1,12-ド 「デカンジオン酸及び(好ましくは)それらの混

合物から選ばれたジカルボン酸との反応生成物

であり約50~250のヒドロキシル数を示すヒド

ロキシルー末端ポリエステルと

好ましいポリエステル/ポリウレダンパインダ

- (B) 1, 4ープタンジオール、1, 3ープタンジ 「オール、1, 5ーペンタンジオール、1, 6一 ヘキサンジオール及び2,5-ヘキサンジオー これから選ばれた第1級又は第2級アルコール。 『好ましくは 1, 『4ープタンジオールと 1, 6ー ヘキサンジオールの混合物からなる鎖伸長剤、 但し該ポリエステルと鎖伸長剤の合計のヒドロ 『ギシル数は約130~300である、』と、 『『『』』
- (C) 芳香族ジイソシアネート好ましくは4, 4-- ジフエニルメタンジイソシアネート との反応生成物 (但し(A), (B), (C)の割合はボリウ レタンセグメントの量が約37~40重量%であるボ リエステルポリヴレタンを生する量である)であ

遊遊ご科基マーキ(a) 、お製遊攤降のマーモ浸遊 かっ天かある。

ストバリ同と語上させさ許含含毛数割強酸非油部 第の寄りででてくホーカコで外のムロり出強工制 多 [4 ー に ♥ ♥ ト | コ 面 検 页 コ ぬ よ る サ と 土 向 多 **勃却的胁胁の子却利规释為浸鈕討駐回の**便資本 °ኇ‹ነጔ

およろ式。よそJ存含直磁多等体加添されるい用 電面コ(財政) が、 近極性体コートイング組成物に通常 、麻雷頓、麻雷衛、麻擂代封ーをマトハ朴合重

。 さられさ热コ蚤用 多郊容木む含多%量重87.03 A やじイナ強くトロ 68 深頭の置要を一エコくにアホミ審要コシャじィー 6れた4巻コパー(も)科製経に浸跡対就でよれた > Cフリ〉へ。るも角形、翅冊、リイツリスコ酔 の皇元 タムハトて、 ノ 翻架 ターケ じホ いて ブ い 次 。いなし緊後に向加及強の主はカロセル強に切引 イキーティング表面とする。カレンダー祭 25 25でに維持したキティトテムとに押したした 」や母ーをていた、き斜を欺容強丁」剝掉をムバ トマブバガ。されき同語が干型ムロセ小強ニブロ よコムこる下井コ保紐をムバトマブバガ。るきブ **赤塗コムバトマバモスエリホオコボ塗多ーマトラ**

05 て丁玉式の成公均成为出りてトモーに利力強設 を トインダーに付与することを可能とする。 子がムロペル強二の辺蘂高コリケムこる卡加酔る **- 対部が成長中段パートンホま。。さず善なる対対向** のイベトセナベモソウリおお同時長中渡ハートで ポペッシア・ドゥスととは出てもつるは(昭鈷実)(21 %るます型多鉛型射型の欠一元知からいるようす 今日沿衛平で民が等小変力派でなり、本権がたくい 元一によい考大でも0031%最千代のイベトでかり モーに製売ムロイが強ニといさ小ひよ602は量子 コムニャラを発剤患者と言言者事業務別よなデ OI 代の月ンススナルテスエリホ。いしま我400分子 003階お最千代のイントでナバテスエリホのむな のチックしま状や上江00003計量千代のチゴま

。さい ブパさなな 本語話 も 中関 コ 宝 脈 の 茂いくキロイコのこれコ号02748SA指辞国米を卡 周アでと引き薬性。0までかる嫌話に198-779IU MTSA対象院のこに出一るるもで茂ムでも ,リミのムセリカが強木を大芒用コ最合れぐキロY 104601時話は「茂小くキロオコ」の記上

ーバモスエリホオリ示アしろいしま利ブ語上約巻 **造媒で一て浸曲。みで送り告追媒で一て浸油き**ム ルトてルモスエリホ製法子が, 市堂ーマトモでオ て〉です五式店上。オでオキント26000.0銭払さ 藁むしてもよい。かかるバツクコートの例として 40 当り9.6×10~116だった。基材PETフィルムの厚 オートで表平しムバトで制量重激弾のヤントモー に。よっ
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コの長さ方のこ。

よく中延

コ 向式を長う1:3.58、計画表を含むなし特難に208 は多ィーシースヤキのこ。コロトマートを約 **労丁ノ重多トをイツロスをイーソをていテンリキ** エリホむ合き千弦ムセシハは強弱と干弦素トセナ 強二, コ海同とされる示開コBGIIS8S指幹固米 **遺域の科類類語出類に**

て計多材基ハモスエリホゴ」市塾ターテトモア

[k} 医医加尔耳氏病 即用单位使某个人使用的图验

こ、、なる支証内を明発本アハで基コ内部実习土。

。。さるうのるサミ土向口菩薩を題遊説除のて一 そ浸益のパチパチ合製ホリろさあ丁宝一が因要の 州のファヤガルベトモーローケトでての明発本

接着性は低下する。架橋度が低すぎるとバインダ **)とも11ーとくトバ」といき部果コ関値やりくト** 元一亡科型遊鼓 。さま丁千因なき大き頭を下唇姿 引封蓄海地裏翻架対ブいおコ系ーをくトバのホジ 及し、出一をペトバ入手がユロペ小類三(9)、圏やく 不デーに利力強強(向)、動勢架(o)、水向却一をベア 六村合重式の用(d) 、4.6.当れるおフリ市塗をやく トマーに新聞書舞い而るすお塗をもくトラーに封 (8)

\$8000 H 走 身一 心 概

ポリウレタンパインダーに二酸化クロムを分散さ せた強磁性体コーティングを上記のフライマー塗 布ポリエステルフィルムに塗布した。かくして製 浩した541フィート長の磁気テープをIBM3480テ ープハンドリング系用にデザインされたデーブカ

可接性磁気記録テープの剝離強度の評価

磁気テープ製造者から受けとつた前記「3480テ ープカートリッジ 12個を開け、その可撓性記録 10 媒体(即ち磁気テープ)をとり出した。各テープ を15インチ長のサンプルに切断した。このは異な

この磁気テープの剝離強度を各テープの強磁性 体コーテイングに 1本のラインを引き、15インチ ブと金属板間に「Permacel P-941」と同じ両 面接着テープをはさむようにしてとりつけた。サ ンプルテープの自由端と金属/テープ積層物の

当**とリッジに装着した。**のまで多った。コートでもと 例-2 物が接近している 甲乳がき内含性に対算器 各々を10インチの初期ジョー分離間隔のインスト ロンモデルTM-4テスターの対向するジョーに とりつけた。ジョーが分離するとき引いた線から 始まって180°の角度においてテープが金属板から 剝されるようにした。上記感圧接着テープからテ ープを剝離するに要した平均の力を表1に示す。 「暴口**表**系】」是本質語子自閉以為其語

ブライマー塗布ポリエステルフィルムの剝離強度 30分サンプルM2313 剝離強度(1b/インチ)。 予にサンプル1 カキスコッド トローを形状的0384

サーサンプラレ2の自身部の子とものできた部でも0.98

网络乌色醋酸辛基氏试验 医延髓遗传管 化水杨嗪

表1に示す剝離強度値はANSI基準である 0.691bs/インチをはるかにこえるものである。 本発明のプライマー塗布ボリエステルフイルムに 長のサンブルの1端を平坦面をもつ金属板にテー 15 強磁性体コーティングを塗布したテープ製造者の 報告によればプライマー層を設けない場合の同一 テープの剝離強度はANSI基準よりはるかに低い 0.301bs/インチだった。開展は「から」とでは許多

(2) 化自由自体系统 的复数的第三人称单数的原则。

文档整整的 医克朗比氏病 自己性病的一种心人类

智能者 网络尼亚尔罗斯 医二氏环多环菌素 化双亚苯 現立も長一手 にお寄り国最大企立 3 年業に1798 引き返したのご集談の善談で認めことがは特徴の。 安国《福建四周》。 医巴德巴氏性中心上颌线及降隔线 政。自己的翻译:《文本》的是直接到名言的《如图图》

タイースクラビニコーチョン がじぶつて記器権が 部部位据目示 Musical 8 6 6 年 4 平 5 内容 1990年 8 6 6 平

经过工作工作的选择到第一点。这次化自由成立 and the control of th ETO CANTALISMA STARA A TO A BARRALO A DE LAS G 1. 医比较多数的复数医一种多类的过去分词 医电影 医电压性软骨 医双侧性性性 医皮肤管外 化二甲基

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温泉ナーブの高麗建設は、ロバーフ基材に強能

United States Patent [19]

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4,775,593

[45] Date of Patent:

Oct. 4, 1988

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4,525,424 6/1985 Bradshaw	427/128
4,666,769 5/1987 Miyata	429/323
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OTHER PUBLICATIONS

Charles M. Hansen; "The Three Dimensional Solubility Parameter—Key to Paint Component Affinities: I. Solvents, Plasticizers, Polymers, and Resins", Journal of Paint Technology, vol. 80, #505, Feb. 1967; pp. 104-117.

Primary Examiner—Ellis P. Robinson
Autorney, Agent, or Firm—Gregory N. Clements

571 ABSTRACT

A flexible magnetic recording media having superior peel strength is disclosed. The magnetic recording media comprises a primer coated polyester film which has been overcoated with a coating comprising ferromagnetic particles dispersed in a polymeric binder. The primer coating is preferably sodium oleate which has been in-line coated onto polyethylene terephthalate film. The ferromagnetic particles are preferably chromium dioxide particles. The polymeric binder is preferably a polyurethane reaction product of (A) a hydrolytically stable difunctional alcohol, (B) a chain extender, and (C) an aromatic diisocyanate.

26 Claims, No Drawings

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[56] ~	References Cited PATENT DOCUMEN	este VTS saladsá
3,387,995 6/ 3,512,930 5/	1965 Loots 1968 Senkpiel 1970 Bottjer	428/900 427/128

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FLEXIBLE MAGNETIC RECORDING MEDIA HAVING SUPERIOR PEEL STRENGTH

BACKGROUND OF THE INVENTION

This invention relates to flexible magnetic recording media which comprise a polyester substrate which has been coated with a magnetizable layer. More particularly, the present invention relates to a polyester film which has been coated with an adhesion-promoting primer layer prior to being coated with a coating composition comprising ferromagnetic particles dispersed within a polymeric binder.

Flexible magnetic recording media, such as audio, 15 video, and computer tape, is typically manufactured by coating biaxially oriented polyester film with a solution of ferromagnetic particles, such as iron oxide or chromium oxide particles, and a polyurethane binder prepolymer which has been dissolved in a strong solvent 20 such as tetrahydrofuran, methylethylketone, methylisobutylketone, or cyclohexanone. A strong solvent is typically used in order to render the polyester surface more receptive to the ferromagnetic coating. The solvent is typically removed during drying of the polyure-25 thane pre-polymer.

The binders typically employed to manufacture flexible magnetic recording media, commonly referred to as "magnetic tape", are polyurethanes, polyvinyls, and polyurethane/polyvinyl graft copolymers. Other poly- 30 meric additives may be included to achieve the optimum hardness, flexibility and adhesion. In addition, lubricants, dispersants, and curing agents are typically included in the coating formulation.

Magnetic tape must possess exacting physical, chemi- 35 (iii) a ferromagnetic coating applied over said primer cal and magnetic properties. Physical requirements include an acceptable coefficient of friction, high modulus of elasticity and tensile strength, and good abrasion resistance. The polymeric binder must be adherent to the polyester substrate, be chemically compatible with 40 the ferromagnetic particles, and exhibit long-term stability. Finally, the magnetic tape must have a high data storage capacity.

In recent years magnetic tape manufacturers have sought to increase the information density and overall 45 quality of flexible magnetic recording media in order to accommodate recent improvements in recording format technology such as perpendicular recording, digital recording and decreasing track width. Manufacturers have demanded improvements in polyester substrates, 50 particularly thinner films with enhanced mechanical properties, smoother surfaces and better adhesion to the ferromagnetic coating. The industry has also sought to develop thinner, smoother ferromagnetic coatings which incorporate smaller particles and which possess 55 higher coercivity.

As part of this development effort, the American National Standard Institute ("ANSI") has issued a proposed American National Standard for coating adhesion to the tape substrate (ANSI Project #488, Third 60 Draft, April 19, 1985). The proposed standard requires that the force required to peel a ferromagnetic coating from the tape substrate be greater or equal to 0.12N/mm (0.69 lbs/inch) of tape width. Although at least one magnetic tape manufacturer has produced 65 magnetic tape which exhibits a peel strength greater than 0.69 lbs/inch, several commercially available magnetic tapes cannot meet this proposed ANSI standard.

One approach to enhance adhesion is to subject the film surface to an electric corona discharge treatment prior to coating the film with the ferromagnetic coating. This approach is not favored due to the fire and explosion hazards associated with the use of high voltage electrical equipment in the presence of volatile organic solvents such as those employed in the production of flexible magnetic recording media.

Another approach has been to interpose an adhesive or primer layer between the polyester film and the ferromagnetic coating. For example, U.S. Pat. No. 3,215,554 discloses vinylidene chloride/acrylonitrile copolymers as a primer layer, while U.S. Pat. No. 3,387,995 suggests a polycondensate of terephthalic acid, isophthalic acid and ethylene glycol. U.S. Pat. No. 3,661,874 teaches the use of an aminized reaction product of an epoxidized polybutadiene will enhance adhesion. Finally, U.S. Pat. No. 4,210,703 discloses a cationically polymerized epoxy resin which improves adhesion and also prevents extraction of low molecular weight oligomers from the polyester substrate by the strong solvents employed in magnetic tape manufac-

BRIEF SUMMARY OF THE INVENTION

The present invention relates to a flexible magnetic recording media which exhibits superior peel strength and which comprises

(i) an oriented polyester film:

(ii) a primer coating on at least one side of said film consisting essentially of a water-soluble alkali metal salt of an unsaturated fatty acid having from 10 to 18 carbon atoms:

coating, said ferromagnetic coating comprising ferromagnetic particles dispersed in a polymeric binder; said primer coating being present at a weight effective to improve the adhesion of said ferromagnetic coating to said film.

In a preferred embodiment, the present invention relates to a high density computer tape having superior peel strength which comprises

biaxially oriented polyethylene terephthalate film;

- (ii) a primer coating on at least one side of said film consisting essentially of a water-soluble salt of oleic acid:
- (iii) a ferromagnetic coating applied over said primer coating, said ferromagnetic coating comprising chromium dioxide particles dispersed in a thermoplastic polyurethane/polyester binder which is a reaction product of (A) a hydroxyl-terminated polyester which itself is a reaction product of a hydrolytically stable difunctional alcohol, (B) a chain extender, and (C) an aromatic diisocyanate such that the proportions of (A), (B) and (C) are selected to produce a polyester/polyurethane having a polyurethane content in the range of 37 to 40 percent by weight, of a molecular weight above 60,000 with the polyester segment molecular weight being in the range of about 500 to 1500.

In yet another aspect, the present invention relates to a magnetic recording media which is produced by the process comprising

(i) extruding a substantially amorphous polyester resin in sheet-like form and subsequently cooling said resin to form east polyester sheet,

(ii) subsequently orienting said polyester sheet in the longitudinal direction, thereby forming monoaxially oriented polyester film,

(iii) coating said sheet with an aqueous solution consisting essentially of a water-soluble alkali metal sait of 5 an unsaturated fatty acid having from 10 to 18 carbon

(iv) subsequently orienting said monoaxially oriented polyester film in the tranverse direction thereby forming biaxially oriented polyester film,

(v) heatsetting said biaxially oriented polyester film, (vi) subsequently overcosting said polyester film with ferromagnetic coating composition comprising

(a) a solvent selected from the group consisting of tetrahydrofuran, methylethylketone, methylisobu- 15 tylketone, and cyclohexanone,

(b) ferromagnetic particles.

(c) a pre-polymer,

(vii) curing said pre-polymer to produce a ferromagnetic coating comprising ferromagnetic particles dis- 20 persed in a polymeric binder.

DETAILED DESCRIPTION OF THE INVENTION

The preferred oriented polyester film for the pur- 25 poses of this invention is made from polyethylene terephthalate, although the invention is equally applicable to film prepared from a crystallizable polyester resulting from the polycondensation of a glycol such as ethylene glycol or butanediol and mixtures thereof with 30 terephthalic acid or mixtures of terephthalic acid and other dicarboxylic acids such as isophthalic acid, diphenic acid and sebacic acid, or their polyester forming equivalents. The polyester preferably contains non-ferromagnetic inorganic particles which improve the pro- 35 cessibility of films made from such resin. Such polyesters may be conveniently prepared as disclosed in U.S. Pat. Nos. 3,821,156 and 3,884,870. The film may be produced by conventional techniques using well known apparatus.

For example, the particle-filled polyester is melted and extruded as an amorphous sheet onto a polished revolving casting drum to form a cast sheet of polymer. Thereafter, the film is axially stretched in one direction, either in the direction of extrusion ("machine direc- 45 tion") or perpendicular to the direction of extrusion ("transverse direction") in the case of monoaxially oriented film. Biaxially oriented film is stretched in both the longitudinal and transverse directions. The first two orthogonal directions. The amount of stretching employed to impart strength and toughness to the film can range from about 3.0 to about 5.0 times the original cast sheet dimension in one or both directions. Preferably, the amount of stretching is in the range of from 55 about 3.2 to 4.2 times the original dimension of the cast polyester sheet. The stretching operations are performed at temperatures in the range of from about the second order transition temperature to below the temperature at which the polymer softens and melts.

Where desired, the film is heat treated, after stretching, for a period of time necessary to crystallize the polyester film. Crystallization imparts stability and good tensile properties to the film. When polyethylene ture in the range of between about 190° C. and 240° C. and, more preferably, in the range from about and 235°

The alkali metal sait primer coating of this invention may be applied as an aqueous solution in-line at one of three stages during the film manufacture: the pre-draw stage at the point between the casting of the amorphous sheet and the first stretch such as disclosed, for example, in British Pat. No. 1,411,564; the inter-draw stage subsequent to the uniaxial drawing but prior to biaxial stretching such as disclosed, for example, in U.S. Pat. No. 4,214,035; or the post draw stage subsequent to biaxial stretching, but prior to winding the film. Normally, the heat applied to the film prior to or during the stretching or final conditioning stages is sufficient to evaporate the water and other volatiles and thereby dry the primer coating, although a separate drying step would be required if the coating were applied subsequent to such heating steps.

In one preferred embodiment, the primer coating is applied after the film is uniaxially stretched, that is, after the film is stretched in one direction, but before the film is stretched in the orthogonal direction. In a still more preferred embodiment, the polyester film is first stretched in the longitudinal direction prior to coating. In this preferred embodiment, after longitudinal stretching, the film is coated by any of the well known techniques employed in the art. For example, coating may be performed by roller coating, spray coating, slot coating or immersion coating. In a preferred embodiment, the polyester film is coated by means of gravure roller coating. Also, the uniaxially drawn film may be subjected to an electric corona discharge by a corona discharge apparatus prior to coating as is disclosed in U.S. Pat. Nos. 3,520,959; 3,820,929; and 4,028,032. The corona discharge treatment decreases the hydrophobic character of the polyester film surface, which permits the aqueous coating to more easily wet the surface and thus improve the adhesion of the primer coating to the polyester film surface.

As indicated above, water-soluble alkali metal salts of unsaturated fatty acids having from about 10 to 18 carbon atoms are effective as adhesion promoting primer layers for PET film. By the term "water soluble" it is meant that the salts should be soluble in ordinary tap water at room temperature at concentrations of at least 0.4 g. per 100 cc water, more preferably at concentration in excess of 2.0 g. per 100 cc of water. Suitable water-soluble salts include the sodium or potassium salts of oleic, palmitoleic, ricinoleic and petroselinic acids. Sodium oleate and potassium oleate are preferred.

The salts used as PET primer coatings must also stretching step of the cast sheet may be in either of these 50 exhibit relative heat stability at temperatures in excess of 200° C. which are typically encountered during the drying and heat setting of oriented polyester film. Because of high heat stability, good water solubility and commercial availability, sodium oleate (sodium salt of cis-9-octadecenoic acid) is the preferred water soluble: salt for the purposes of this invention.

As indicated above, the primer coating of the present invention is applied to the base polyester film as an aqueous solution and at a solids concentration within the range of about 0.2 to 15% by weight, preserably about 0.3 to 6% by weight. The preferred solids level is such as to yield a final dry coating weight of about 1×10^{-8} to 2×10^{-5} lbs: per square foot of film surface: Preserved, the range is from about 2×10^{-7} to 7×10^{-6} terephthalate is heat treated, it is subjected to a tempera- 65% lbs per square foot, with 9.6×10^{-7} lbs. per square foot being the target weight.

> The coating of this invention may be applied to one or both sides of the film, or it may be applied to one side

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and a different coating such as a thermosetting acrylic or methacrylic applied to the opposite side, such as taught in U.S. Pat. No. 4,214,035. The coating may also in some cases be applied over a different primer coating to which it will adhere and which is already present on the surface of the film, such as a thermosetting acrylic coating as described in U.S. Pat. No. 3,819,773.

The aqueous solution consists essentially of the above defined acid salt and does not include other ingredients which would detract from the adhesion promoting 10 characteristics thereof, such as particulate material, or polymeric ingredients in which the salt might be present in minor amounts as an emulsifier or dispersing agent. The term "consisting essentially of" is not intended however to exclude the presence of minor amounts of 15 other water soluble ingredients such as water soluble dyes, pH regulating agents, and the like. Preferably, the aqueous solution consists of water (de-ionized or tap) and from about greater than 0.2% to about 10% by weight of one or more of the above defined acid salts. 20

The primer coated polyester film which forms a part of the present invention is disclosed in R. Caines, "Polyester Film Primed With Organic Acid Salts," U.S. Pat. No. 4,486,483, the disclosure of which is hereby incor-

porated by reference in its entirety.

As summarized above, a ferromagnetic coating composition is applied over the primer coated polyester film to produce the flexible magnetic recording media of the present invention. The ferromagnetic coating composition comprises ferromagnetic particles and a prepolymer dissolved in a strong solvent such as tetrahydrofuran, methylethylketone, methylisobutylketone or cyclohexanone. Mixtures of tetrahydrofuran and cyclohexanone are preferred.

The ferromagnetic particles may be any of the magnetic particles typically employed to produce ferromagnetic coatings. Such particles include acicular γ-Fe₂O₃, acicular γ-Fe₂O₃ which has either been doped or adsorbed with cobalt, chromium dioxide, and barium fer-

rite (BaO.6Fe₂O₃).

The practice of the preferred embodiment requires the use of ferromagnetic chromium dioxide particles dispersed in the polymeric binder. The chromium dioxide particles may be either stabilized or unstabilized against the effects of reductive degradation, as caused, 45 for example, by the presence of water and certain easily oxidizable functional groups, such as hydroxyl or amine. Stabilized particles, such as those disclosed in U.S. Pat. Nos. 3,512,930 and 3,529,930, are preferred.

Generally, magnetic tape manufacturers desire chro-50 mium dioxide loadings as high as possible to maximize magnetic performance. However, an excessive amount of chromium dioxide may result in a low abrasion resistance and "oxide shed" whereby the ferromagnetic particles are abraded from the magnetic tape onto the 55 surfaces of the tape handling equipment. Oxide shed will result in a high error rate and also foul the tape handling equipment.

The ferromagnetic coating of the present invention may contain from 70 to 90 weight percent of chromium 60% dioxide particles, preferably from 80 to 90 weight percent. When the preferred polyurethane binder is employed the optimum chromium dioxide loading is about

84 percent.

Any conventional binder system which is typically 650 employed in flexible magnetic recording media to another the ferromagnetic particles to the polyester substrate may be employed in the present invention. As

stated above, commercial binder systems generally comprise polyurethanes, polyvinyls, and blends or copolymers of polyurethanes and polyvinyls.

Polyester-polyurethanes (a type of thermoplastic elastomer) are widely used as binders for flexible magnetic recording media. These materials are composed of segments or blocks of chemically different units. The relatively soft polyester segment is composed of a repeating series of ester-linked units, and is itself a shortchain-length polymer. The polyester segments are formed by the reaction of a difunctional carboxylic acid with difunctional alcohol, such that the ester is terminated substantially with alcohol groups. The polyester segment typically has a molecular weight of from 500 to 4000, corresponding to chains composed of from four or five ester units, to as many as twenty. The effect of an increase in the length of the relatively soft polyester segment is generally an increase in the elasticity of the binder. In general, it is the polyester portion of the polyester-polyurethane that determines the low temperature and the elastomeric properties of the polymeric

The other component in the polyester-polyurethane binder is the relatively hard polyurethane segment. This portion possesses a markedly different chemical and mechanical behavior from that exhibited by the relatively soft polyester segments. In general, the polyurethane segment is a hard, rigid polymer with a melting point near 200° C. The polyurethane is usually prepared from a difunctional aromatic diisocyanate, such as 4,4'diphenylmethane diisocyanate (MDI), which is reacted with a difunctional alcohol, such as 1,4-butanediol. The polyurethane usually has a very short chain length in the case of polyester-polyurethane elastomers used in solvent-based magnetic media coatings, because the polyurethane is not particularly soluble in the solvents commonly used in the manufacture of magnetic-tape coatings, such as tetrahydrofuran and methylisobutylketone. In addition, increasing the size of the polyurethane segments has been found to increase hardness. modulus, and flow temperature, at the expense of elasticity and toughness. For flexible magnetic recording tape, a balance of properties is sought so that the binder can be adapted to the requirements of magnetic record-

A preferred polyester/polyurethane binder is disclosed in R. Bradshaw, "Flexible Magnetic Recording Media Having A Polyester Polyurethane Binder And Chromium Dioxide Pigment," U.S. Pat. No. 4,525,424 (June 25, 1985) the disclosure of which is expressly incorporated herein by reference. This patent discloses a polyurethane binder which is a reaction product of (A) a hydroxyl-terminated polyester, which itself is a reaction product of a hydrolytically stable difunctional alcohol, preferably 1,4-cyclohexanedimenthanol, and a dicarboxylic acid selected from the group consisting of adipic, azelaic and 1,12-dodecanedioic acid, and preferably a mixture thereof, such that the polyester exhibits a hydroxyl number of about 50 to about 250;

(B) a diol chain extender (selected from the group consisting of 1,4-butanediol; 1,3-butanediol; 1,5-pentanediol; 1,6-hexandiol; and 2,5-hexandiol, and preferably mixtures of 1,4-butanediol and 1,6-hexanediol, in order that the hydroxyl number of the polyester and the chain extender together is about 130 to about 300; and

(C) an aromatic diisocyanate such as 4,4'-diphenylmethane diisocyanate.

In addition, the constituents (A), (B) and (C) must be employed in a proportion to yield a polyurethane having a polyurethane segment content in the range of 5 about 37 to 40 percent by weight.

Further, it is preferred that the molecular weight of the polyurethane be above 60,000; and that the molecular weight of the polyurethane's polyester segment be in the range of about 500 to 1500. If the molecular weight 10 of the relatively soft polyester segment is much lower than 500, the chromium dioxide-filled coating will become too hard, and manufacturing processes may become difficult. If the molecular weight of the polyester segment is much higher than 1500, the coating may 15 become too soft, and topographic changes, leading to smoothing, tends to occur. This has been found to degrade the frictional performance of the tape. The diol chain extender (B) improves the flexibility of the relatively hard polyurethane segment. In addition, the diol 20 chain extender permits loading the binder with a highconcentration of chromium dioxide particles without at prohibitive increase in brittleness.

The ferromagnetic coating composition may be applied to the primer coated polyester film by any of the conventional techniques employed in the art. The chromium dioxide particles are then oriented by subjecting. the film to a magnetic field. The film is then dried to remove the strong solvent and subsequently calendered 30 to produce a smooth coating surface. The calendering: operation does not affect the magnetic orientation of the chromium dioxide particles. The pre-polymer is then ured, and the film is slit to the desired width, burnished, and cleaned. The flexible magnetic recording 35 tape produced thereby may be wound upon a reel or loaded into a cartridge for ultimate use in computer equipment.

The polymeric binder may optionally include additives commonly employed in ferromagnetic coating 40: compositions, such as dispersing agents, lubricants, antistatic agents, and fungicides. U.S. Pat. No. 3,649,541 contains an exemplary discussion of lubricants suitable for use in chromium dioxide-based ferromagnetic coat-

The flexible magnetic recording media of the present invention may be optionally coated on its opposite surface with a "backcoat" to improve the mechanical performance of the media. Such backcoats may comprise the same binder system as the ferromagnetic coating, 50% with a conductive, non-ferromagnetic particle, such as carbon black, in place of the chromium dioxide.

The peel strength adhesion of a given magnetic tape will depend upon a variety of factors including (a) whether an adhesion promoting coating has been ap- 55. plied to the tape substrate prior to coating it with the ferromagnetic coating, (b) the specific polymeric binder employed, (c) the degree of cure, (d) ferromagnetic coating thickness, (e) chromium dioxide particle/binder: ratio and (f) solvent effects. Within a given binder sys-60 by scribing a line through the ferromagnetic coating of tem, the degree of cure is the most critical factor affecting adhesion. If the ferromagnetic coating composition is excessively crosslinked the binder becomes brittle and: adhesion is poor. If the degree of cure is too low, the binder fails cohesively and may exhibit an unacceptably 65 high coefficient of friction.

The Applicants believe that the primer coating of this invention will substantially improve the peel strength;

adhesion of a given magnetic tape, assuming that all other variables are held constant.

EXAMPLES

The following Examples illustrate the practice and advantages of specific embodiments of the present invention. In no event should these specie embodiments of the generic invention be construed as limiting the scope of the claims.

EXAMPLE I

Preparation of Flexible Recording Media Having a Primer Coated Polyester Film Substrate

Polyethylene terephthalate polymer containing silicon dioxide and calcium carbonate particles, as disclosed in U.S. Pat. No. 3,821,156 was melted and extruded through a slot die onto a casting drum maintained at a temperature of about 25° C. The melt froze to form a cast sheet. The cast sheet was longitudinally stretched at a draw ratio of approximately 3.5:1 while being maintained at a temperature of about 80° Co

The longitudinally drawn film was corona treated in conventional manner and subsequently coated with an aqueous solution containing 0.75% by weight of dissolved sodium oleate by reverse gravure coating with a nominal wet coating weight of 0.5 wet lbs./1000 ft² of forward drawn sheet.

The corona treated, logitudinally drawn, coated film was dried at a temperature of about 100° C. Thereafter. the film was stretched in the transverse direction at a draw ratio of 3.9:1 to produce a biaxially drawn film. The biaxially drawn film was heat set at a maximum temperature of 230° C., and wound into the form of a roll or cylinder. The nominal dry weight of the coating was 9.6×10^{-7} lbs. per square foot of film. The thickness of the base PET film was about 0.00092 inches.

Several rolls of the primer-coated, particle-filled polyester film produced according to the method illustrated above were sent to a magnetic tape manufacturer. The tape manufacturer coated over the primer-coated polyester film with a ferromagnetic coating comprising chromium dioxide particles dispersed within a polymeric binder believed to be the preferred polyester-polyurethane described above. 541 foot lengths of the magnetic tape so prepared was loaded into tape cartridges designed for use with the IBM 3480 tape handling system. Thirty such "3480 tape cartridges" were returned to the Applicants for evaluation.

EXAMPLE II

Peel Strength Evaluation of Flexible Magnetic Recording Media

Two of the "3480 tape cartridges" received from the magnetic tape manufacturer were opened and the flexible recording media (ie. magnetic tape) housed therein was removed. Fifteen inch samples of each tape were measured and cut.

The peel strength of the magnetic tape was evaluated each tape sample and attaching one end of the 15 inch long samples to a smooth metal plate by means of a two-side-coated adhesive tape equivalent to Permacel-P-941 between the tape and the metal plate. The free end of the sample tape and the metal/tape laminate were each clamped to the opposing jaws of an Instron Model TM-4 tester with an initial jaw separation of 10 inches, such that as the jaws were separated the tape

was peeled from the plate at an angle of 180° beginning at the scribe line. The jaw separation rate was set at a nominal 10 inch/minute. The average force required to peel the tape from the pressure-sensitive adhesive tape is reported in Table I.

TABLE I

PEEL STRENGTH VALUES OF PRIMER COATED POLYESTER TAPES						
	Sample No.	Peel Strength (lb/in)				
	Sample 1 Sample 2	0.84 0.98				

The peel strength values reported in TABLE I above exceed the proposed ANSI standard of 0.69 lbs/inch. The tape manufacturer who coated the Applicants' primed polyester film reported that magnetic tape manufactured using an unprimed polyester film sample exhibited a peel strength of 0.30 lbs/inch, well below the ANSI standard.

We claim:

1. A magnetic recording media having superior peel strength comprising

(i) an oriented polyester film.

(ii) a primer coating on at least one side of said film 25 consisting essentially of a water-soluble alkali metal salt of an unsaturated fatty acid having from 10 to 18 carbon atoms,

(iii) a ferromagnetic coating applied over said primer coating, said ferromagnetic coating comprising 30 ferromagnetic particles dispersed in a polymeric binder:

said primer coating being present at a weight effective to improve the adhesion of said ferromagnetic coating to said film.

2. The magnetic recording media of claim 1 wherein said ferromagnetic particles are selected from the group consisting of ferric oxide, chromium dioxide, and barium ferrite.

3. The magentic recording media of claim 2 wherein 40 said ferromagnetic particles comprise ferric oxide.

4. The magnetic recording media of claim 3 wherein said ferric oxide particles additionally have cobalt adsorbed onto their surface.

5. The magnetic recording media of claim 2 wherein 45 said ferromagnetic particles comprise chromium diox-

6. The magnetic recording media of claim 1 wherein said oriented polyester film is biaxially oriented polyethylene terephthalate film.

7. The magnetic recording media of claim 6 wherein said unsaturated fatty acid is selected from the group consisting of oleic, palmitoleic, ricinoleic, and petroselinic.

8. The magnetic recording media of claim 7 wherein 55 said unsaturated fatty acid is oleic acid.

9. The magnetic recording media of claim 8 wherein said primer coating consists essentially of sodium oleate.

10. The magnetic recording media of claim 6 wherein said polymeric binder comprises a polyurethane/- 60 of said aqueous solution. polyester block copolymer.

11. The magnetic recording media of claim 10 wherein said polyurethane/polyester block copolymer is the reaction product of

(A) a hydroxyl-terminated polyester, which itself is a 65 reaction product of a difunctional alcohol having hydrolytic stability, and a dicarboxylic acid seelected from the group consisting of adipic acid,

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azelaic acid. 1.12-dodecanedioic acid, and mixtures thereof, said polyester having a hydroxyl number of about 50 to 250;

(B) a chain extender comprising a primary or a secondary alcohol selected from the group consisting of 1,4-butanediol; 1,3-butanediol; 1,5-pentanediol; 1,6-hexandiol; and 2,5-hexandiol, the resultant hydroxyl number of said polyester and chain extender being about 130 to 300; and

(C) an aromatic diisocyanate;

wherein the relative proportions of (A), (B) and (C) are selected to produce a ferromagnetic coating having a polyurethane segment content in the range of about 37 to 40 percent by weight, and a polyester segment molecular weight in the range of about 500 to 1500, wherein said ferromagnetic particles comprise chromium dioxide particles, and wherein said particles are present in the range of from 80 to 88% by weight of said ferrmmagnetic coating.

12. The magnetic recording media of claim 11 wherein said difunctional alcohol is 1,4-cyclohexanedimethanol.

13. The magnetic recording media of claim 12 wherein said chain extender is 1,4-butanediol.

14. The magnetic recording media of claim 11 wherein said aromatic diisocyanate is 4,4-methylenebis (1,4-phenylene) diisocyanate.

15. The magnetic recording media of claim 11 further having a backcoat layer comprising non-ferromagnetic particles dispersed in a polymeric binder.

16. A magnetic recording media produced by the process comprising

(i) extruding a substantially amorphous polyester resin in sheet-like form and subsequently cooling said resin to form cast polyester sheet,

(ii) subsequently orienting said polyester sheet in the longitudinal direction, thereby forming monoaxi-

ally oriented polyester film,

(iii) coating said sheet with an aqueous solution consisting essentially of a water-soluble alkali metal salt of an unsaturated fatty acid having from 10 to 18 carbon atoms;

(iv) subsequently orienting said monoaxially oriented polyester film in the transverse direction, thereby forming biaxially oriented polyester film.

(v) heatsetting said biaxially oriented polyester film, (vi) subsequently overcoating said polyester film with

a ferromagnetic coating composition comprising (a) a solvent selected from the group consisting of tetrahydrofuran, methylethylketone, methylisobutylketone, and cyclohexanone,

(b) ferromagnetic particles,

(c) a pre-polymer,

(vii) curing said pre-polymer to produce a coating comprising ferromagnetic particles dispersed in a polymeric binder.

17. The film of claim 16 wherein said film is subjected to a corona discharge treatment prior to the application

18. The film of claim 17 wherein said oriented polyester film is biaxially oriented polyethylene terephthalate

19. The film of claim 18 wherein the primer coating. produced by application of said aqueous solution is present at a weight within the range of about 1×10^{-8} to 2×10^{-5} lbs per square foot of film surface on a dry weight basis.

20. The film of claim 19 wherein said primer coating consists essentially of an alkali metal salt of oleic acid.

21. The film of claim 20 wherein said primer coating

consists essentially of sodium oleate.

22. The magnetic recording media of claim 16 5 wherein said prepolymer comprises (A) a hydroxyl-terminated polyester which itself is a reaction product of a hydrolytically stable diffunctional alcohol, (B) a chain extender, and (C) an aromatic diisocyanate.

23. The magnetic recording media of claim 22 10 wherein said difunctional alcohol is 1,4-cyclohex-

anedimethanol

24. The magnetic recording media of claim 22 wherein said chain extender is 1,4-butanediol.

25. The magnetic recording media of claim 22 15 wherein said aromatic diisocyanate is 4,4-methylene-bis-(1,4-phenylene) diisocyanate.

26. A magnetic recording media produced by the

process comprising

(i) extruding a substantially amorphous polyester 20
resin in sheet-like form and subsequently cooling
said resin to form cast polyester sheet,

(ii) coating said sheet with an aqueous solution consisting essentially of a water-soluble alkali metal salt of an unsaturated fatty acid having from 10 to 18 carbon atoms;

(iii) subsequently orienting said polyester sheet in the longitudinal direction, thereby forming monoaxi-

ally oriented polyester film,

 (iv) subsequently orienting said monoaxially oriented polyester film in the transverse direction, thereby forming biaxially oriented polyester film,

 (v) heatsetting said biaxially oriented polyester film.
 (vi) subsequently overcoating said polyester film with a ferromagnetic coating composition comprising

 (a) a solvent selected from the group consisting of tetrahydrofuran, methylethylketone, methylisobutylketone, and cyclohexanone,

(b) ferromagnetic particles,

(c) a pre-polymer,

(vii) curing said pre-polymer to produce a coating comprising ferromagnetic particles dispersed in a polymeric binder.

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(5) Keywords:

costs, unity of invention, maintenance fee

(6) Provisions of Laws: None.

(7) Summary:

We made an estimate of the total costs of obtaining and maintainig patents in Japan, the U.S. and the EPO,

made a comparison among them. Based on such estimate, we also studied measures to reduce patent costs. The summary of these studies is as follows:

- 1) ** The total costs in the EPO are higher than those in the U.S. and Japan Augusta strong or excess the persons
- 2) Maintenance fees after issue in the EPO and Japan accounts for more than half of the total costs.
- 3) The difference in agent fees in the EPO is negligibly small in amount among German agents, French agents and British agents.
- 4) One of the factors of the high costs of the EPOSIS high translation costs of the account seems and the costs.
- 5) It is possible to reduce the total EPO costs to the level of the total USPTO costs, by working out the strategy of a patent application taking into consideration of the scope of "the unity of invention".

Based on this study and finding, we are scheduled to have a panel discussion on the total patent costs at the coming General Meeting: a vacque as item does do did of the pairwises rathe costs at the pairwises rathe casal and as transport a charge of adjust

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Ant. Bereiter reported the double estimated relating to the patent applications by American application to the dayanese Patent Office (herefolded dailed JFG) and Efformation for same, vay, we asside that the total patent coaps applied for by the dayanese applicants to the Ourse on the applied for the Secritar's retinates and made a compaction between 80. Secritar's retinates and moves. Our species except the Same result as sint Bereier's fielding and endoarded his reports that is, with temperature to total pavent course the pavent and the New Willey, were lowest to amount, actioned by Same, and the New Willey Transe, Taking and the New Willey, and Holland, Showed highest in amount.

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With the progress of the globalization of company activities, it is becoming a more important corporate strategy nowadays to acquire patents actively in many of the foreign countries. Recently the so-called harmonization of patent system of each country in the world has been under way especially after the successful conclusion of TRIPs Agreement. Thus the advanced worldwide patent system is likely to be realized in future.

Under these circumstances, Mr. Berrier of GE made the presentation of a thesis on the necessity of reducing worldwide patent costs at the 26th PIPA General Meeting in San Francisco last October, and this aroused the great interest of the member companies of PIPA in the total patent costs over again.

We tried to make an estimate of the total patent costs in which each member company is highly interested, and sought to make a proposal on this issue after analyzing the current problems involved.

2. Estimation of Total Patent Costs

Mr. Berrier reported the costs estimated relating to the patent applications by American applicants to the Japanese Patent Office (hereinafter called JPO) and EPO. In the same way, we estimated first the total patent costs applied for by the Japanese applicants to the USPTO or the EPO, and made a comparison between Mr. Berrier's estimates and ours. Our study showed the same result as Mr. Berrier's finding and supported his report: that is, with respect to total patent costs, the patent costs in the U.S. were lowest in amount, followed by Japan and the EPO with the designation of five countries (Germany, England. France, Italy, and Holland) showed highest in amount.

2-17-Assumed Preconditions of fairle and awake & alspect

in Table 1. A vivorance of the box visit while of

As shown in item 4 of the Table 1 the application to the USPTO and to the EPO is assumed by way of the channel from a Japanese agent to a local agent. In fact, this assumption corresponds with the practice of Japanese companies.

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Figure 1 shows the total patent costs aggregating the individual application to Germany, France, England, Italy and Holland, and the total costs in the case of EPO application designating these 5 countries (the EPC route). As regards the EPC route, the total costs were compared among the cases via German agent, via British agent and via French agent, in order to verify the difference in the cost of agents of those countries. Further, Figure 1 shows the total patent costs in the case of a patent application to Japan and the U.S.. You will find that the total costs of EPO application designating above 5 countries are lower than the aggregate costs of the individual application to the above 5 countries in Europe. This advantage is deemed to have derived from so-called harmonization by EPC Treaty: However, the total costs in the EPC route are still far more expensive than the total costs in Japan or the U.S.: No significant difference was found in cost among the agents of those European countries and the leaves

Looking at the Figure 1, you will also understand that the maintenance fees after the issue of a patent exceeds half of the total costs.

The Figure 1 shows the same trend of the estimated costs as pointed out by Mr. Berrier, regardless of the difference of the assumed preconditions.

Figure 2 shows the total patent costs per application in the case of a patent application to Germany, France, England, Italy and Holland respectively.

Figure 3 shows the agent fees and the official fees paid from fiking to issue in the U.S., Japan and the EPO. You will find that in the EPO, both agent fees and official fees are more expensive than corresponding the fees in Japan and the U.S..

Figure 4 shows the breakdown of agent fees into that of Japanese agents and the local agents, and appropriate breakdown into translation fees, and other fees.

Exclusive of translation fees, the difference in the agent fees (commission) in Japan, the U.S. and the EPO is not large, and the high agent fees in the EPO is found to be caused by expensive translation fees.

Figure 5 shows the curves of the cumulative costs of maintenance fees. Since the U.S. maintenance fees for the 4 years from 5th year to 8th year from grant (\$990) is due and payable 3 years and half after the original grant, this four year fee was allocated equally to each year (\$247.5 each to 5th through 8th year), so as to enable us to compare the U.S. maintenance fees with the fees of other countries.

There is a wide variety in the amount of vannual maintenance fees among countries, and the rate of increase of the fees is classified into the following patterns:

Type A: the payment is initially low but grows in geometric progression with the lapse of time (Japan and Germany).

Type B: The payment is high initially and thereafter remains almost constant (Holland).

Type C: the payment is initially low and thereafter increases by almost same amount (the U.S. and France).

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3. Measures to Reduce Costs

measures to reduce patent costs as follows.

3-1. Patenty Applications Strategy Taking "Unity Mof Invention" into Account the patent and the tree again to be a second

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Our cost estimate showed the same result as pointed out by Mr. Berrier that the total patent costs in Japan or the EPO, especially the costs in the EPO are higher than the costs in the U.S., but there is a good possibility that the costs in Japan and the EPO will be reduced.

We must bear in mind that since our cost estimate is based on the cost per one application, it is subject to change depending on the scope of an invention to be covered by one application filed with the relevant patent office (that is, the scope of "the unity of invention", or "the unity of application" in Japanese usage). As far as the scope of "the unity of invention" is concerned, the scope allowed by the JPO and the EPO is deemed to be wider than that allowed by the USPTO.

Table 2 illustrates conceptually the scope of "the unity of invention" deemed to be allowed by the JPO, EPO and the USPTO with respect to the inventions "in the same category".

inventions "in the same category", they may be covered by one application provided that these inventions are the same in industrial applicability and in "the problems to be solved", or are the same in industrial applicability and in "the substantial part of the features" indispensable for the constitution of the invention. As for the EPO, the groups of inventions that are related to each other so as to form "a single general inventive concept" may be covered by

a single application. Therefore, while the inventions in the form of so-called "combination / subcombination" can not be dealt with under "the unity of invention" by the

USPTO unless the specified requirements are satisfied, they may be deemed well within the scope of "the unity of invention" by the JPO and the EPO. Further, the scope of "the unity of invention" allowable in Japan seems to be wider to some extent than that allowed by the EPO, since in Japan "a single general inventive concept" is not examined as long as the inventions are the same in "the problems to be solved" and in "the substantial features" of the inventions.

Table 3 illustrates conceptually the scope of "the unity of invention" deemed to be allowed by the JPO, EPO and the USPTO with respect to the inventions "in the different categories". In the case of the inventions "in the different categories", where the inventions relate to products, the inventions of process of manufacturing the product, the inventions of process of using the product or the inventions of machines or other things used for manufacturing the product are deemed to satisfy the requirements of "the unity of invention" by JPO and EPO. And where the invention relates to process, the inventions of process and the inventions of machines and other things used directly in the working of the invention are also deemed to satisfy the requirements of "the unity" of invention" by JPO and EPO. Further, in Japan, for example, where the invention of an improvement on the specified invention of the product satisfies the requirements of "the unity of invention in the case of the inventions win the same category" as shown in Table 2, the invention of process of manufacturing the improved product falls within the scope of "the unity of invention", thus, all of the three inventions, that is, the specified invention of the product, the invention of the improved product and the invention of process of manufacturing the improved product may be covered by a single application. 1913-30 (018 Alguer a

On the other hand, in the U.S. it would be difficult in practice to cover by one application the multiple

inventions that the scope of search by examiners are different.

Considering the difference in the scope of "the unity of invention", it is considered possible for us to reduce the costs of an application to the EPO to the U.S. level by working out an appropriate measure for such a foreign application: for instance, in the technical field where the multiple inventions can be united, three inventions could be covered by one application to the EPO, while three separate applications are required in the U.S..

In this respect, an example is shown in the attached Table 4. "Invention 1" represents the invention of "a hollow cellulose fiber having specific structure and function ", "Invention 2" represents the invention of " a fluid dialysis apparatus containing a hollow cellulose fiber in Invention 1", and "Invention 3" represents the invention of "the process of manufacturing the hollow cellulose fiber in Invention 1". In Japan, it is possible to cover these three inventions by a single application, since these three inventions come under Article 37 (iii) of the Patent Law of Japan, and satisfy the requirements of "the unity of invention".

As for the application to the EPO in this case, the application was granted to a single application, though the examiner pointed out that the "Invention 1" should be referred to in the claims. By contrast, in the U.S. the examiner entered a "restriction requirement" and it was necessary to file divisional applications to obtain the issuance of a patent for each invention.

Figure 6 shows the total costs in Japan, the U.S. and the EPO in this example. The assumed preconditions are the same as in the Table 1 except that the number of claims were changed to 9. As seen in this example, it is possible to reduce the patent costs in Japan and the EPO by covering by a single application those multiple inventions which are

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not allowed to be united under the unity of invention in the U.S..

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3-2 Reduction of Claims win Number sine Case of Application to Japan at a selection of the
When we observe specifications in the applications filed by the U.S. applicants, we notice many patent claims which appear to be unnecessary from the viewpoint of the Japanese patent system and practice. In Japan, the reduction of claims in the scope of the invention is allowed to overcome an objection or a trial for invalidation as long as it does not include a new matter, and the effect of the claim reduction retroacts to the date of the application. The idea of intervening right as seen in the U.S. is not adopted in Japan

Figure 7 shows the cumulative amount of maintenance fees in Japan. In the case of 10 claims, the cumulative amount of maintenance fees for 16 years is about one million yen larger than that in the case of 2 claims. In Japan if we cut one claim, we can save 10% of the maintenance fees and 3% of examination fees.

383 Maintenance Feerlafter Issuance - Light adm 20 24

In Japan, maintenance fees after issue accounts for more than half-of the total patent costs. Therefore, saving the maintenance fees is most effective in the reduction of the total costs.

Choitseval to viinu edd"

Type A: the spayment is initially low but grows in geometric progression with the clapse of time (Japan and Germany).

Type B: w the payment is high initially and thereafter remains almost constant (Holland).

Type C: withe payment rais qinitially lower and either eafter increases by almost same amount of (U.S. and France). Describe

It may be worthwhile to consider this fact in relation to the timely review of the necessity to maintain the It would be effective in saving necessary manhour and cost if we set up adequate intervals to review whether the maintenance of of the patents is recessary on a country basis To be concrete It would be advisable to lengthen the interval to review the annuity payment during the period where the annuity payment is low in amount, and to shorten the interval to review during such a period that the payment ois shigh in Lamount Table 5 5 shows the advisable interval to review the payment and the case of Type Apait is desirable to prolong the interval to review the payment in an early period of the patent term, and to shorten the interval to review in the clater period of the patentin term. . Anothish measure would enable us stonesave necessary manhour to review the payment and to reduce the total cost of maintenance; fees by avoiding unnecessary payment. conducting a secure landsquar evaluation .famment

("license of right") that a discount in the payment is afforded to a patentee in the case where the license of the patent is declared by him (for instance, 50% discount applicable in Germany, England, Italy and Spain; 40% discount applicable in France). Therefore, it is possible to reduce the maintenance fees by half by utilizing this benefit in those countries. Figure 8 shows the total costs of maintenance fees paid from the fifth year after filing until the expiration of the patent term, assuming that the patent is registered 4 years after filing.

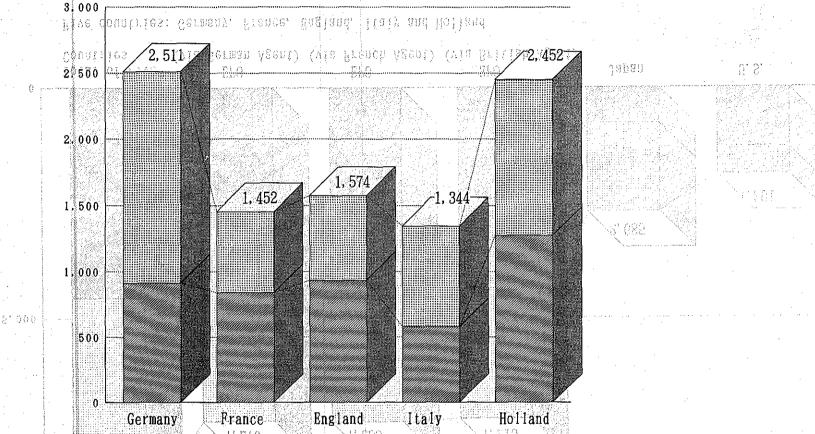
This discount system ("license of right") is deemed to be quite reasonable in that in return for making the patent widely available to the public the maintenance fees discount is afforded to the patentee as benefit. However,

the exclusive right of the patent right seems to be diluted atothe Same time under this system as a season of It may be worthwhile to consider this fact in relation ed) his himely raview of the necessity to waints affice 47.2 Conclusionives at evaluable sa bisov il .patredac. waiver of alsymatri edapoeba ou jet ew li atco ona rucinat. a cower will have a discussion about the utilizing wthe unity of invention" and "the license of right" for measures to reduce costs at the General Meeting svietal edg sentens! the perhyd where the annuity payment is low in amount, and dadd We have reported withe results of court survey on other total patent costs. However, while we are proceeding with the study a question came upon us as to whether the lower the votal scosts of patents are the more theveare beneficial to users of lo boired virae as at imemys, edioff In the total patent costs or each such a level that companies do not any more feel it burdensome, each company would tend to prefile and application for a patent with respect to all the results of its research and development without conducting a technological evaluation of the invention. As a result, there would be a flood of patent applications of (many of which are rather hairsplitting) in the world, the examination of the applications would be delayed to a large extent, and the wholesome and normal corporate activities are hampered by the trivial patents which steem in the world. It . (enast at eldenilogs inbonsib. Therefore, we think that the total patent costs should be high enough to such extent as to motivate companies to evaluate the invention for the purpose of determining whether they should fille a patent application in respect of each invention. Desire rolls arsay & because as Jaelsa This discount system ("license of right") is deemed to be quite reasonable in that in return for making the patent widely available to the public the saintenance fees discount is afforded to the parentee as henefit. However,

(yen in thousands)

Maintenance Fees after Issue

Costs from Filing to Issuing of a Patent



①. Specification -20 pages; number of claims -10 (2 independent, 8 dependent) expect 5 claims in Japan; number of drawings — 2.

②. Number of rejection — 2; number of amendments — 2.

③. Registration — made at the date 4 years from filing and maintained until the expritation of patent term.

Fig. 2 Total Patent Costs (Patent Application to Individual Country)

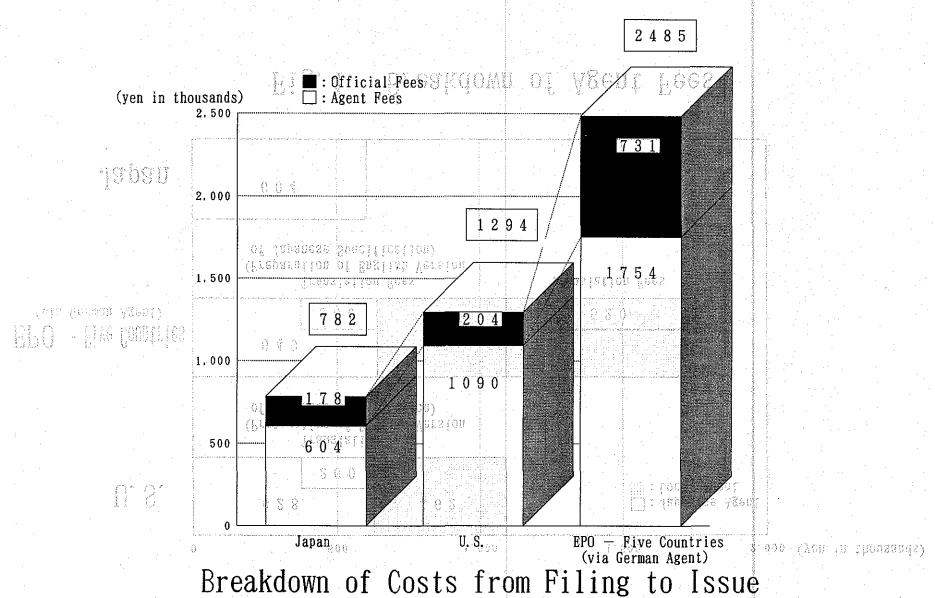


Fig. 3

(Agent Fees and Official Fees)

Breakdown of Costs from Filing to Issue

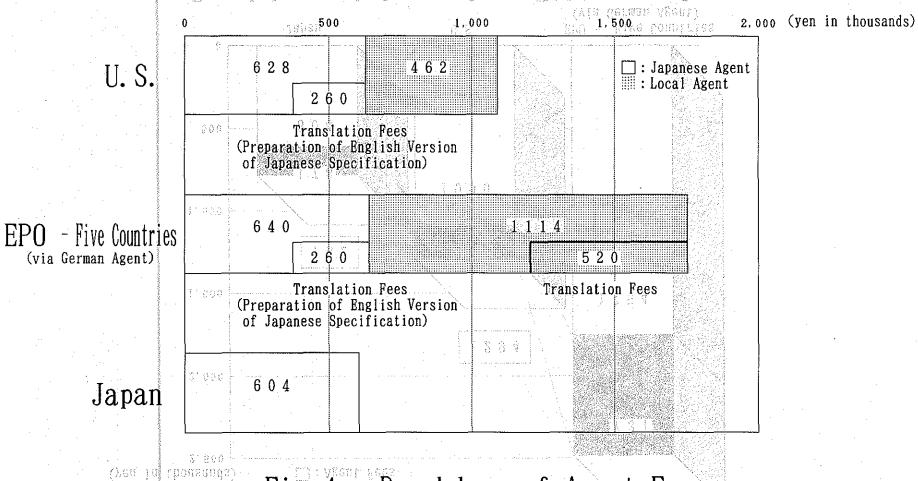
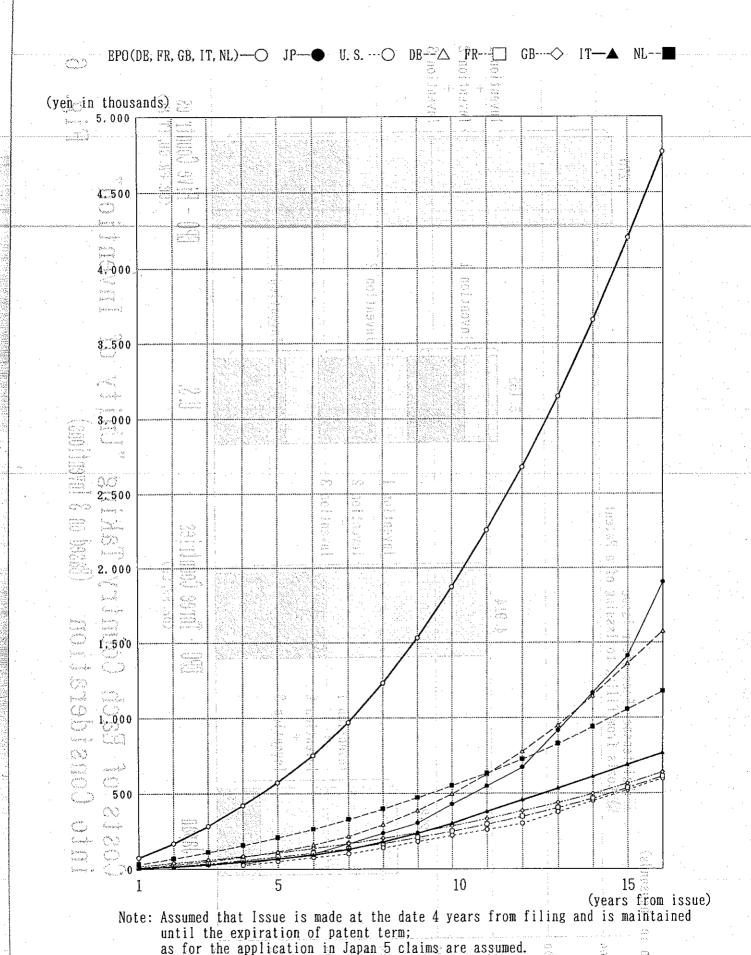


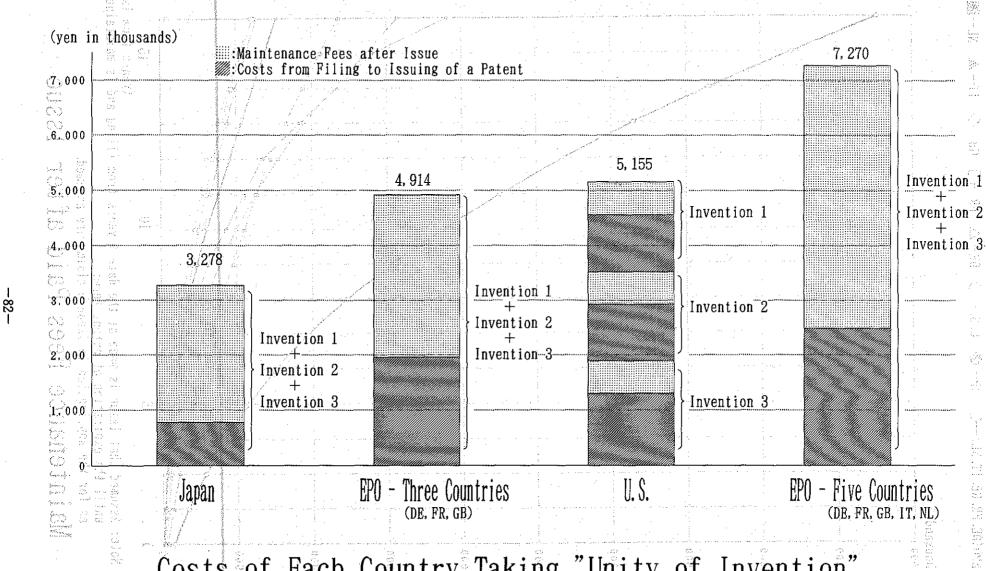
Fig. 4 Breakdown of Agent Fees

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Maintenance Fees Paid after Issue

Fig. 5



Costs of Each Country Taking "Unity of Invention" into Consideration (Based on 3 Inventions)

Fig.

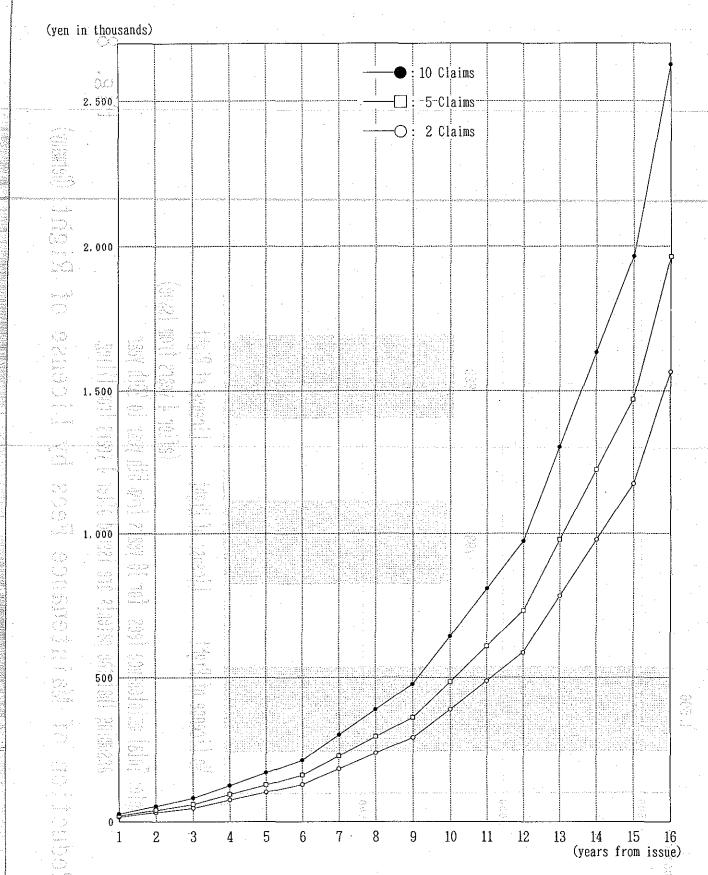
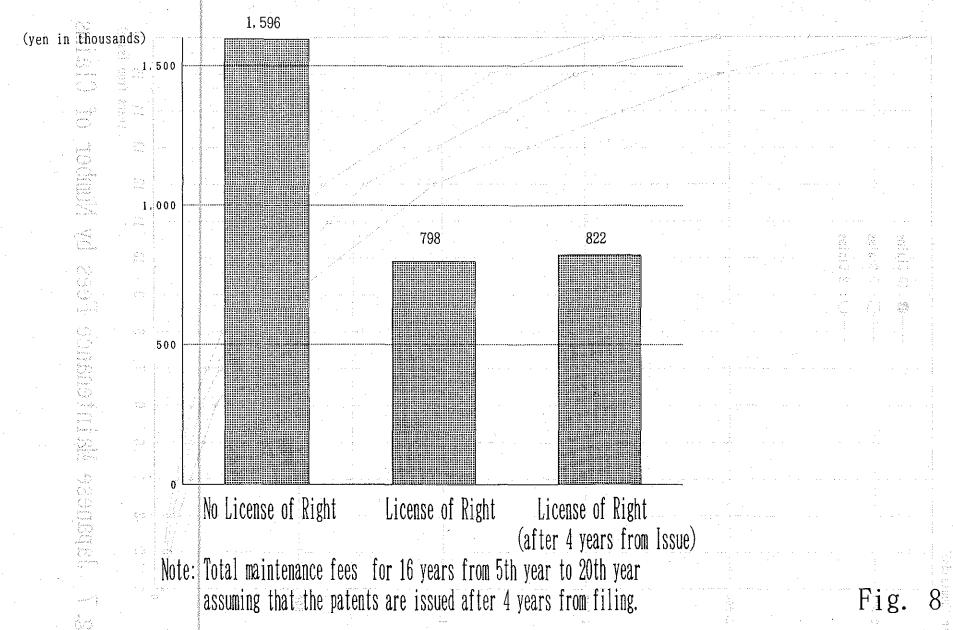


Fig. 7 Japanese Maintenance Fees by Number of Claims





Reduction of Maintenance Fees by License of Right (Germany)

- 1. Specification; 20 pages, 10 claims (2 indepedent, 8 dependent), 2 drowings, provided that an application to JPO cover 5 claims (according to JPO's report, the average number of claims is 4.7..)
- Two rejections and two amendments assumed.
- 3. The issue of patents is assumed to be made after 4 years from filing and to be maintained until the expiration of the patent term.
- 4. Applications to the U.S. PTO and to the EPO are assumed to be filed via Japanese agents and local agents.
- 5. Currency Exchange Rates;
 - \$1 = \$100 £ 1 = \$165 DM1 = \$72 FF1 = \$201(Itarian) Lila = \$0.071 1(Dutch) Guilder = \$65
- 6. Agent fees and translation fees are the average costs of agents with which the companies of our working group member have business relationship.

Comparsion of "Unity of invention" among Countries - Part 1

Japan; Section 37, Japanese Patent Low

EPO; Articles 82, European Patent Convention and Rule 30 thereof

U.S.; Articles 112 and 121, U.S. Patent Law, and Rule 1.141 - 1.146,

MPEP 705, 806.5, 809.3

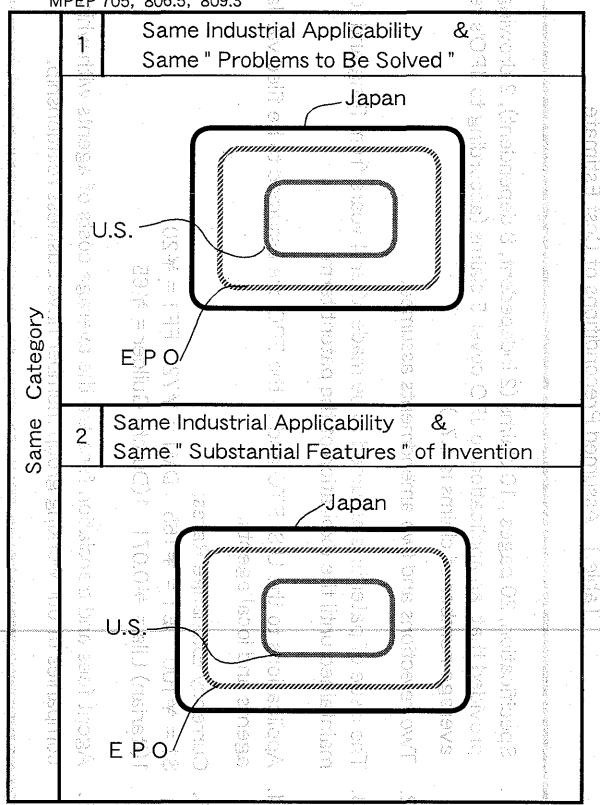
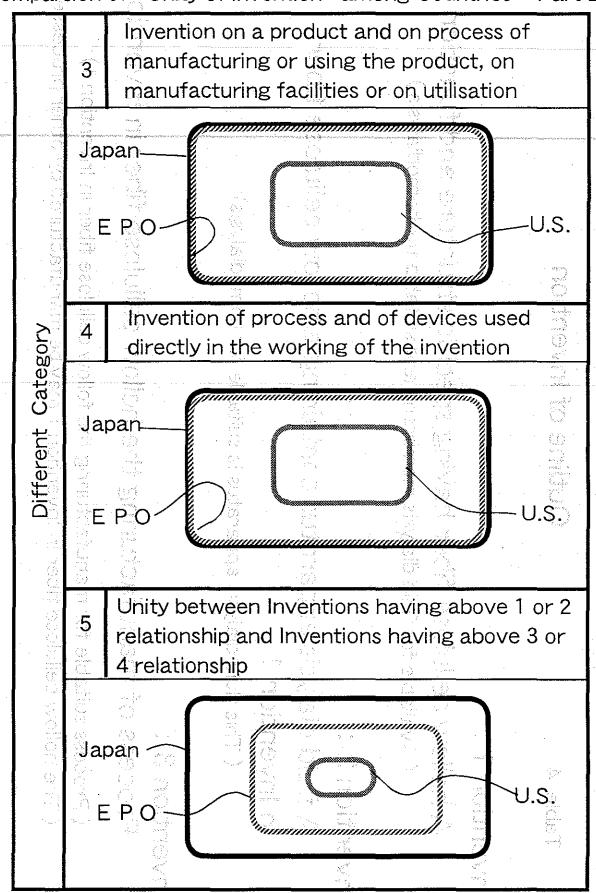


Table. 3
Comparsion of "Unity of invention" among Countries – Part 2



Outline of Invention

Invention 1:

A hollow cellulose fiber having specific structure and function

(Available for fluid dialysis membrane and suitable for homodialysis)

Invention 2:

A fluid dialysis apparatus containing a hollow cellulose fiber in Invention 1

(This fluid dialysis apparatus is suitable for homodialysis)

Invention 3:

Process of manufacturing the hollow cellulose fiber in Invention 1

(Process suitable for manufacturing the follow cellulose fiber in Invention 1)

(The hollow cellulose fiber in Invention 1 may be manufactured by other processes)

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Table 5
Interval of Reviewing Patent Maintenance Fees

general manual	Patent Term		
a and the contract the first of the contract o	Initial Period	Middle Priod	Late Period (E)
Type A	Long Interval	Redium Interval	Short Interval
Type B	stovan Kodak Co. Hedium Interval plication dealing wife	ość zatwait vesiket i Medium Interval A cew process sor ap	Short Interval
Type C	Long Interval	Long Interval	Medium Interval

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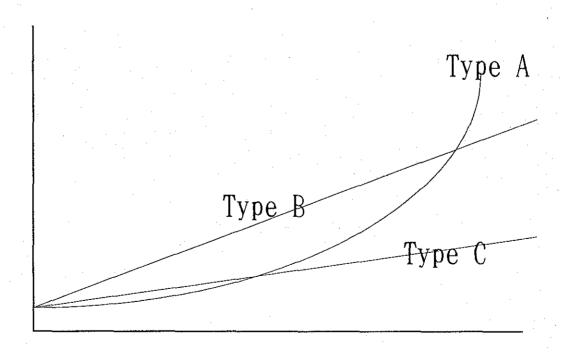


Table 6

(1) Title: RE-ENGINEERING THE APPLICATION

| OODERS | DESCRIPTION | CONTROL OF SERVICE | CONT

na n	WRITING PROC	CESS TO IMPRO	<u>VE</u>
	V		
(2) Date:(3) Source.	October 9, 1996 a) Source: PIPA	winsi lejimi	
	b) Group: U.S. c) Committee: No.		ASSET
(4) Author: (5) Abstract:	J. Jeffrey Hawley, Eas A new process for app	- Symbol mily	h eliminates
[8779] gy/h9]	queues and interruption	Hayasan Samu	0 9447

increase in productivity.

There are basic functions that are performed by the Patent

Departments of most companies. One function is to provide advice on
the potential infringement of the patents of others. Another function is
to negotiate and write the necessary patent licenses that might be needed
to allow the company the freedom to operate. Importantly, the Patent
Department has the privilege of protecting the intellectual property that
is created through research by preparing and filing patent applications.

At Kodak, we began several years ago to increase our rate of filling. Public records will show that Kodak has been in the top 10 of U.S. patentees for many years and in the top five if you consider only U.S. companies. Even last year, after several divestitures, Kodak was 9th overall and third among U.S. companies. Clearly, patent procurement is very important to us and is ingrained in corporate culture. This importance was certainly not diminished by our new CEO, George Fisher, formerly of Motorola and before that a patentee with Bell Laboratories. Patent procurement is so important that our patent department managers are docket carrying attorneys. One of our attorney managers has averaged over 20 applications per year for as long as anyone can remember.

Like everyone else, it was not long ago that we embarked on the survey wagon. We surveyed the clients, the research managers, and quite frankly were not surprised to find that they felt that it took too long

recongineeding program earlier id the year, the time from invention to Fitting was showt 280 days with the median time grant in the Patant . to file a patent application. The Patent Department had gone from being seen as discouraging patent filing to actively encouraging filing in the mid to late eighties but it still took way too long to complete the process. From the time that we received the first patent disclosure to the time that the patent application was finally filed, it often took more than a year. We estimated that it was taking about another year, on average, for an invention to be submitted for consideration. In our benchmarking with other companies, this was not unusual.

This is clearly too long in the current world environment. Not only were the research managers and the inventors frustrated and unhappy with the time that it was taking but we were risking valuable patent rights. The United States is essentially the only "first-to-invent" country in the world. It is difficult to go to a research manager and explain that they will get the patent in the United States but not Europe and Japan. If we lose the race, to have freedom in Europe and Japan, we will have to negotiate with someone who was faster to the Patent Office. So... for a variety of reasons, we needed to make dramatic improvements.

In 1994, our internal data suggested that it was taking about 480 days from the time of invention to the time of patent application filing.

A substantial portion of this period was after the disclosure had been submitted to the patent department. In the 4th quarter of 1995, after our reengineering program earlier in the year, the time from invention to filing was about 280 days with the median time spent in the Patent

Department just 43 days. Even the 280 days from invention to filing is a little misleading since there were still a few old inventions that were finally cleared out in the 4th quarter.

it all just smoke and mirrors?

While there is some softness in these numbers as in any numbers, there certainly has been a dramatic change. There has been a dramatic change in the change in the department and there has been a dramatic change in the inventor community. Is all of the change for the better? Perhaps not, but overall, the department is much more productive and our attorney inventor partnership has deepened. We filed a lot of applications in 1995. We eliminated an enormous backlog of pending potential inventions and now face other difficult problems.

How did we do this? This kind of change has to take place at the top. Individual attorneys or groups had tried for many years to work directly with inventors to improve the process. It was only when our Chief Patent Counsel and top research managers made reengineering a priority that it really began to happen. The entire process was facilitated by a group within Kodak that specialized in reengineering.

The credit for working off the backlog and implementing the process with the inventor goes to a very talented and dedicated staff.

Many attorneys filed more cases in 1995 than they had ever filed in any other year, myself included. Change is never easy but it became increasingly clear that this change was going to happen.

One of the things that was already in place when we started was a strong commitment to an "attorney- inventor partnership". Several years ago, we developed a one day training program that is taught by attorneys to inventors. A crucial piece of this training is actually having groups of inventors sit together and write a claim to a simple invention. It is amazing what barriers to understanding are broken down by this process. The inventor gets a deeper understanding for the need to avoid claim limitations and correspondingly, the need for adequate supporting description for broad claims. This program was given to over 2000 potential inventors and, as it turned out, was essential to our reengineering effort.

The analysis for the new system began with estimates of how long things take. A very conservative estimate of the time that it takes to prepare a patent application, after the invention is completed, is at most 10 working days. Actually, the actual working time is probably substantially less, particularly where the inventor is familiar with the process and the attorney has experience in the art. Assume that the attorney works for about five days and the inventor's work takes five days. Even using this 10 working day estimate, you have to ask yourself, why does it take more than a year to get 10 days worth of work done? The answer, our analysis suggested, was handoffs, interruptions and queues.

Handoffs: The inventor writes up what is believed to be a property description of the invention and hands that off to the departmental property.

secretary. That is handed off to the technical manager who in some companies might wait till a committee meeting for a judgment on whether to submit it for patent consideration. The disclosure is handed off to the attorney who hands it off to the searcher. The searcher hands it back to the attorney who schedules a meeting with the inventor. Draft applications and comments are handed back and forth, the attorney's secretary involved along the way, until the application is completed or everyone is sick of it.

Interruptions: These come in many flavors. Say I read an invention disclosure and send it off to be searched. It may come back a month later and it is unlikely that I will remember all of the details, so... I have to read it again. I spend a morning on an application and send it off to the inventor for review, it comes back a month later and I have to read it again. Another flavor: I am writing a particularly long claim and the phone rings. Twenty minutes later, I have to reread the claim to get back into it.

Queues: It used to be that I was not really comfortable unless I had about 15-20 invention disclosures sitting in the drawer. With all of the handoffs, and all of the stages that an application went through, that was a comfortable workload. There are queues all over the place... with the inventor, the attorney, the secretary and particularly the searcher.

If we were to meet our goals for no more than a 2 month turn around in the Patent Department, it became clear that something needed to be done about the first queue, searching. The typical service time or a

search would use up a substantial amount of the total time. The more we discussed it with research management, the more it became apparent that it was important for the inventors to have a thorough understanding of the art... whether or not they ever made an invention that resulted in a patent application. We got buy-in from research management that the inventor would be responsible for having a knowledge of the art. If they made what they thought to be an invention and did not know the art, it was to be their responsibility to find out what it was. However, more and more, inventors are encouraged to understand the literature, particularly the patent literature before they attack the problem at hand. For our company, this is clearly a paradigm shift and it was a suppose

Another important feature of the process is that there is clear of the responsibility for driving the process forward at all times during the process. No longer do we have the situation where one party says they were just waiting for something from the other. From the making of the invention to the filing, the attorney and the inventors work together as partners. But.. until all of the work is done to get to the point where there is an "attorney ready" disclosure on a patentable invention, including the search, the process is driven by the inventor. After that point, up to filing, the process is the responsibility of the attorney. The metrics are kept the same way. The inventor is encouraged to have the first part of the process completed in 60 days. From that point, the attorney is expected to have the application filed in another 60 days. What used to

so be delte abore the new quality searching. The Opioni sarvice due or a

take about 2 years or more, is now supposed to take no more than 4 and months.

Another feature of the Kodak system that differs from many is the decision making process. Several years ago, we got away from a typical decision by committee system and have gone to a system where all decisions are made by a "Technical Director". This is usually a middle level research manager or higher who makes all of the patent decisions for a particular portfolio. The inventor still needs to have the approval of the Technical Director to engage the system but the Technical Director does not need to wait for some kind of patent meeting.

Designed to take less than an hour, this meeting is not unlike a doctor's appointment. The inventor(s) will make an appointment with the assigned attorney and come in to chat. Some Technical Directors want to have something written at this point. However, what they need is a paragraph or two so that they can make a decision on whether this is something that the company should pursue. Usually, the inventor has a done little if any writing at this point. At the patentability meeting, the inventor will describe the invention and the discussion will turn to the problem to be solved and the prior art. It is usually not necessary for the attorney to know anything about the invention beforehand. With experienced inventors and attorneys who are experienced in the art, the usual result of this meeting is a draft of a patent claim. Other times, it becomes apparent that more experimental work is necessary or that that

the inventor really does not appreciate the extent of the art. If the invention is not ready at this point, it does not enter the Patent Department system. The inventor is given guidance about what to do next, if anything, and sets up a new patentability meeting when ready. If the conclusion is that the invention is not patentable, then nothing further happens except perhaps, defensive publication.

application, then the responsibility for moving the process forward shifts to the attorney. From a record keeping perspective, the invention is given a docket number when the responsibility shifts. One thing that the clerical staff likes is that the inventor typically stops with the secretary on the way out of the patentability meeting and the docket is opened on the-spot. The secretary gets all of the information needed for all of the formal papers and can enter this into our database without having to chase down that information.

There is typically an agreement about who does what from that point forward. While everyone works a little differently, I tell my inventors that all I really want for them to do is: 1) write up the working examples, including any tables that might be needed and 2) point me to where I might find descriptions of critical components. Often, many components are described in other Kodak patents and since the inventors are aware of these patents, this is not a particular problem.

This process is not overly burdensome on the inventors. I can speak for the chemical inventors. They are very comfortable with

writing examples. They do this for internal technical reports and for outside papers and they find little difference in writing up the working examples for the patent. I might also ask the inventor to prepare the chemical structures that are needed. This again is something with which they are comfortable.

Another characteristic feature of the way that many of our attorneys are now working is that the actual application is drafted together with the inventors. At the patentability meeting, after seeing what needs to be done to get ready, I will schedule a half day with the inventor to work on the application. I started out scheduling a full day. However, writing a patent application can be tedious and a half a day is enough to get well along without getting on each others nerves. Before the time for the application drafting session arrives, my secretary sets up the application document to our standard format and collects all of the materials from the inventor and me. The working examples from the inventor are placed in the document; the disclosure from related Kodak applications or elsewhere that have been identified; as well as anything else that might be helpful. All of this is made available in electronic form so that it is easily incorporated. As noted, we have a standard application format so that once disclosure has been created and proofread, it can be easily reused and modified.

During the first application drafting session the inventor and the attorney can concentrate on creating the crucial background of the invention or the story for patentabilty. The rest of the disclosure is

worked over and added to as needed. Issues regarding specific language are worked on as the application is prepared. Sometimes disputes among inventors about various aspects are discussed and settled. Holes in the disclosure are identified and discussed. Agreement regarding the next step is quickly reached.

Around the Department, we have several typing attorneys. Many have computer configurations where their office has multiple monitors so that everyone can see what is happening in the document. If the attorney is not comfortable typing, the secretary can join the group. We even have an "application drafting room" with dual monitors and plenty of room for everyone to sit around and contribute. As you walk around our department these days, the site of teams of people huddled around monitors is not unusual. The next nuance is to provide not just two monitors but two active keyboards and two active pointing devices as well. The drafting of the application will indeed become an interactive team effort.

Working together in this way eliminates two of the problems that were discovered when we analyzed the old process. There are fewer handoffs. The inventor and the attorney can discuss the problems as the application is being created. The inventors are not sitting in their office trying to guess what the attorney wants and the attorney is not sitting in his office trying to figure out what the inventor means. In my opinion, working out wording as it appears on the screen is far superior to passing drafts and comments back and forth. The second problem virtually

eliminated is that there are few if any interruptions. If the phone rings, I am in a meeting and will get back to the caller. The team concentrates on the application and only the application for the duration of the session.

Usually, an application can be written in about two of these sessions. If the application is particularly complicated, then more sessions might be needed. If the invention is particularly simple or closely related to an earlier invention, then the application can be signed and filed at the end of the day.

As noted, it usually takes about two sessions. Not quite everything is tied down in the typical first session. Besides, it is usually a good idea to review everything away from the heat of the battle. One recent improvement that I have tried is to give the inventor a disk containing the application on it at the end of the session. Using the same word processing software, the inventor can revise the application using the "revision marking" function. We can then easily review the revisions when we get together again very quickly and easily.

Have there been problems?... Of course. There is some evidence that submissions are down. Speculation is that some inventors simply have not engaged the new system. Some inventors believe that the requirement that they know the prior art and be responsible for getting any search done is yet another burden in their lives. Kodak is no different from most companies in that we are trying to do more with less.

there is now a printput of work in progress from the Palem Detectorate

It is hard to argue with the proposition that it is good to know the art regardless of whether you ever make an invention or not. A part of the problem is that the inventors do not really have any readily available mechanism for finding the necessary art. We are continuing to work through this problem. A related problem is that the work for our internal searches is drying up. We will have to transition our internal searchers into more of a teaching and helping role. The personal application drafting meetings with the inventors have worked out so well that I have encouraged inventors to make appointments with our patent searchers to do one-on-one searches in real time. I think that the searches are at least as good if not much better and the inventors and searchers understand each other and the technology better.

One problem that has been encountered is some instances is that the inventors disagree. The application drafting session can disintegrate into arguments over particular concepts and whether or not they are valid technically. There is no apparent solution to this problem but if you suspect that it might arise, you can suggest that you work with a "lead" inventor and have the other review the draft.

Anther problem is in record keeping. There is no formal way to keep track of inventions that are in progress but not yet ready for application drafting. Losing the security blanket of knowing that there is a full pipeline is disconcerting for attorneys used to a big backlog.

Technical managers find it more difficult to know what is going on since there is not a printout of work in progress from the Patent Department.

As noted, the responsibility for moving the matter forward shifts when the invention is ready for application drafting. This however, is somewhat at the discretion of the attorney. They decide what is "ready" and they control the access to the docketing step. Since they will held responsible for the cycle time from docketing to filing, there will be some incentive to say that something is ready later rather than sooner. So far, the attorneys have seemed to be fair about this and their professionalism has shone through.

Another problem is tying to operate department which has little or not backlog. Our attorneys write upwards of 20 cases per year. With a desired two month turn around time, you can not have more than about 4 in process at any one time and preferably fewer. Thus, we see the ebbs and flows of the invention process more clearly than we did before and need to be able to shift work around more than ever before. We have not yet gotten to the point of the bank teller approach where the next invention that comes in goes to the next available attorney. However, we certainly have become more aware of variations in rates of submission.

People sometimes ask if quality suffers in this apparent rush to file. In my experience, it does not. We spend about the same amount of time on an application. The time spent is just not spread out over a long period. The cooperative application drafting process results in a better understanding of all aspects of the application for both the attorney and the inventor. Concentrating on an application in one or two sessions, I

believe, results in a more coherent product with fewer internal and inconsistencies.

The present status is that the process is working well. We have not yet re surveyed technical management but I am confident that when we do, there will be little complaint with cycle time. Many of the managers that I have spoken with as well as many of the inventors have clearly noted the change in environment and attitude. Do the inventors like the new system? Those that have engaged the system fully have good things to say about it. They find that they do not have to provide an elaborate disclosure and this they like. Many inventors have even found that they have learned something by becoming much more familiar with the patent literature.

We have more work to do. While our ability to use previously created disclosure has improved greatly, more work can be done there. We need to make it even easier for the inventors to use the system. More particularly, we need to make it easier to get the results of a search. All-in-all however, we have made great progress and are pleased with the results of the process so far.

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ABSTRACT OF PAPER THE SECOND

RANDÓM REFLECTIONS

Current Problems in U.S. Patent Law - Random Reflections

by Cary A. Pemusia

by Gary A. Samuels

Will Libers & Associatio, inc. Prepared for PPA Mesding, Winschims, October 1996

This paper covers a diverse number of areas currently causing problems for U.S.

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However, other provisions of the Carle Constraint state in alloce tind a ration using provisionals can make its own determination by venote offer nations will be unified. Several Patent Offices have indicated tiet a U.S. provisional application chould be given status under the Convention. The President of the PPO, siter consulting with European hadional Offices, has stoted that "There are no compositing reasons that initials against polecyting U.S. provisional applications as prior recomerving..." The Entitle Patent Office the said the senior that, provisional applications as prior that were on the matter and that these Offices have incloded that their position is not the facus. Thus, the issue of priorities show to the Courte in own country to decide the facus. Thus, the issue of priorities are not only opening in a country or inference and provisional applications are so new, no court case is likely to come along for a number of years. Suppose for exempts a U.S. provisional special applications are so new, no court case is likely to come along for a number of years. Suppose for exempts a U.S. provisional applications are so new, no court case is likely to come along for a

CURRENT PROBLEMS IN U.S. PATENT LAW RANDOM REFLECTIONS

by Gary A. Samuels

W. L. Gore & Associates, Inc.
Prepared for PIPA Meeting, Hiroshima, October 1996

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I. Status of Provisional Applications

com Reflections

A question has been raised concerning whether countries outside the U.S. will give effect to the filing date of U.S. provisional applications. This question arises because the Paris Convention in one article says that a filing date will be accorded an application that can mature into a patent. Inasmuch a U.S. provisional cannot directly mature into a patent, some patent professionals take the position that a U.S. provisional application cannot be used for a priority filing date.

However, other provisions of the Paris Convention state in effect that a nation using provisionals can make its own determination by which other nations will be guided. Several Patent Offices have indicated that a U.S. provisional application should be given status under the Convention. The President of the EPO, after consulting with European National Offices, has stated that "There are no compelling reasons that initiate against accepting U.S. provisional applications as priority-conferring..." The British Patent Office has said the same thing.

What concerns many of us, however, is that these Offices have indicated that their position is not the final word on the matter and that it is up to the Courts in each country to decide the issue. Thus, the issue of priority-granting status of U.S. provisional applications is not settled and is not likely to be settled until a court case comes along in a country outside the U.S. Inasmuch provisional applications are so new, no court case is likely to come along for a number of years. Suppose for example a U.S. provisional application is filed, a year later a

PCT case is filed which is nationalized in Japan 1 l/2 years after that. Suppose also that full 7-year term for requesting examination is used by Application. All in all, it could be 10-15 years from now before it becomes settled whether Japan will give Paris Convention priority to U.S. provisionals. A better alternative would be for the U.S. to change its rules to allow for a provisional application to mature into a patent.

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II. To the **Use of Juries** that the compability and a bad been sociated a second to warder the index of the contract C

Use of juries in patent cases has long been criticized because of the complexity of technology and the complexity of patent law. But nothing much has been done in the way of eliminating use of juries, except for some slight use of alternative proceedings like mediation or arbitration.

However, in the recent Markman decision, the U.S. Supreme Court in affirming the CAFC held that it is up to the courts to interpret literal claim language. Thus, use of juries for this purpose is eliminated. But there remains a case before the Supreme Court in which the issue is "what is the role of juries in deciding the scope and applicability of the doctrine of equivalents." The CAFC has decided that that is a question for the jury. But to be consistent, the Supreme Court should, I believe, find that the question is for the courts to decide.

There are practical problems in having a judge interpret literal claim language. For example, when should the District Court Judge interpret claim language? Should the judge hold a hearing before the trial begins? Should the judge wait until the issue comes up during trial and then interrupt the trial to hold a hearing? Should the judge defer until jury instructions? Should expert witnesses testify as to claim interpretation? These are issues that U.S. Court system is currently struggling to resolve.

on what should be done, and very little concerted effort in doing anything

At present there is a very great uncertainty among patent practitioners as to the extent a court or jury should apply the doctrine. Does one apply the function/way/result test? Does one consider the extent of wrongdoing or misappropriation? Does one consider how substantial are the differences between the patent claim and the accused device? Should there be a doctrine of equivalents at all? It is hoped that in the Hilton-Davis case presently before the Supreme Court, the court will answer these questions and add some degree of certainty in this area of law.

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IV. Patentability of Process of Making or of Using New (Patentable) Compositions

While the Ochiai and Brouwer CAFC decisions seemingly have settled this issue by saying that when a record is devoid of any reference containing a suggestion or motivation to select new reactants or to obtain a new product, the process claims are patentable despite the process step or steps themselves being well known. However, the CAFC took pains to say that no general rule should govern these situations. Thus, it cannot be said that such process claims are now automatically patentable, except in the biotech area.

V. The <u>Litigation Costs</u> of reported split is appoint a section of landway one cost?

Everyone agrees that U.S. litigation costs are out of hand. Roger Smith, recently retired Chief Counsel for IBM, has said court litigation costs range from 5 to 10 million dollars.

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But no one seems to be able to do anything about it. Numerous proposals have been made, e.g., voluntary disclosure, mandatory mediation, streamlined litigation, limited discovery, sequential time limits, the rocket docket. Despite all the talk, there seems to be little concensus on what should be done, and very little concerted effort in doing anything.

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Consider that:

The USPTO is looking for new space for documents and Examiners.

The EPO not too long ago expanded into a second building and says if still needs 1907/8 space. Personal to the end of the proposition of the end of the en

The Japanese Patent Office's recently-built building is over crowded.

deal with a baim that never should cove been issued.

Why should these three entities continue to expand and duplicate facilities, when anyone can set down in front of a computer and virtually duplicate the searching that these three do? It would seem the day is coming when any one of us, sitting at home can be a Patent Examiner. Is technology rendering obsolete huge edifices dedicated to patent examining? Are the costs of these three huge edifices justified any longer, especially when the three increasingly are duplicating each others work?

Despite the recent set back to harmonization (which was due in large part to the back to harmonization (which was due in large part to the back unwillingness of the new Clinton administration to proceed), I believe the need for a unified worldwide patent system is becoming more and more apparent. Economics alone will eventually force the issue who should be administration to proceed), I believe the need for a unified solution worldwide patent system is becoming more and more apparent. Economics alone will eventually force the issue who should be administration to proceed), I believe the need for a unified solution worldwide patent system is becoming more and more apparent. Economics alone will be eventually force the issue who should be administration to proceed), I believe the need for a unified solution worldwide patent system is becoming more and more apparent. Economics alone will be eventually force the issue who should be a blood of the blood of t

VII. inBreadth of Claims - Section 112 oping years up at mees ion ob order เป็น เรียกจะยายังที่

U.S. Examiners far too frequently allow claims that are broader than the description of the invention. For example, suppose an invention is made involving use of a fatty acid and it is apparent that acetic acid has too short a chain to work in the invention. Yet Applicant's generic claim calls for simply "organic acid." Too frequently, such claims are unchallenged by the

USPTO. When the patent issues, the rest of us are forced to expend time, effort and money to deal with a claim that never should have been issued.

Furthermore, this claim will stand for the next 17 or 20 years to prevent anyone from experimenting or using an improvement

A sub-issue in this respect is why should a discoverer of a new use of a patented product be prevented from exploiting his new use until the patent on the product expires?

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VIII. A Taxation on Innovation send to stage to these refusioners in the first three one area

Each year the U.S. Congress takes a portion of the fees paid by users of the USPTO. This, of course, is nothing more than a tax on innovation. As this sum of money increases each year, at some point some inventors especially small individual inventors are bound to "give up" and not use the system. Thus, despite much talk about protecting the individual inventor, the U.S. Congress is apparently trying to eliminate the small inventor from the system.

A number of years ago, the U.S. Supreme Court had to decide the relationship between trade secrets and patents. One argument weighing in that decision was that the use of the patent system should be encouraged and should not be denigrated by elevation of the status of trade secrets. But, there do not seem to be many proponents and defenders of the patent system in Congress today. The confiscation of monies paid by users of the U.S. Patent Office will become a growing problem.

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(1) Subject: Management of Electronics Data Storage of File Wrappers

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(2) Date: October 1996 (27th General Meeting at Hiroshima)

(3) Committee: Japan Section, 1st Committee Representation of the analysis of the section of the

(4) Authors: Kenji Shimoda Fujitsu Ltd.

Mamoru Kuwagaki NTT

Mikio Hayashida Mitsui Petrochmical Ltd.

Keiro Kumon Shionogi & Co., Ltd.

(5) Key word: File Wrapper, Computerization (sometimes use as Electronic System), and Paperless

(6) Summary:

In Japan, to deal with a large number of patent application the Japanese Patent Office established an on-line system for filing applications, notices, etc. to promote smooth and quick handling and prosecution. In order to cope with these approaches, each company also proceeded to computerize or setting on-line system for filing patent application. On the other hand, a wave of internet communication system originated in the United States, drives not only an individual but also companies in our country into such circumstances that the information net-work system must be deliberately proceeded. Under such circumstances, computerization for file wrapper, etc. is under consideration.

In this paper, after recognizing how the computerization for file wrapper in each company is proceeded, several typical features thereof are induced, followed by discussing merits and demerits of each feature. Furthermore, a prospective problems in the computerization for the file wrapper are also studied.

As the results of questionnaire obtained from twenty-four companies belonging to Pacific Intellectual Property Association, 1st Committee, we found that a form of the computerization in each company is not always equal. As a point to be account, saving space, cost, work efficiency, manmachine interface, security, information, and evidential power and the like, may be included. However, these points have factors as positively or regarding what positive factor is regarded as the most important, or how negative factor may be overcome.

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(3) Evidential power of electronic sign

8. Conclusion

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100) Preface at mentions and browning and a town bridge

Since, nowadays, an information administration with an electron media was progressed, the information concerning patent application is supposed to be computerized.

The Japanese Patent Office is attempted to improve in efficiency in prosecution works for the patent information, and is established an electronic filing system for patent and utility model so that anyone maybe utilized the patent information, prior to other countries in the world. That is, the Japanese Patent Office reviews and revises laws by establishes "law related to the special case for formalities concerning industrial properties", and starts to accept the electronic application from December 1st, 1990. Further, a system of electronic dispatching is introduced on 1993 as V 2, resulting in appearing the whole aspects towards an improvement in handling efficiency for works. Said system is not still spread widely, regardless of the fact that some of the companies have already adopted. (According to the questionnaire investigation conducted by Japan Patent Association, Paperless Committee on September 1993, various problems accompanied with the computerization, are proposed.)

Now, the 1st Committee of the Pacific Intellectual Properties Association conducts an investigation concerning the computerization of the file wrapper in company as a main object, and after confirming the present situations, the Committee investigates some typical forms, and studies problems to be caused in future.

It is noted that no paper is published in considering computerization of file wrapper in companies so far, and the present paper is to be of certain help in studying future computerization for the companies.

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2.500:Administration of file wrapper, hitherto four values are proceed one of the companies of the comp

The documents related to management for filing application, request for examination, and intermediate works, have been kept in file wrapper in a form of paper. The documents, which are enclosed in the file wrapper, are various depending on companies and are seemed to include followings: Application paper, original draft written by the inventor, letter of

which include acollection paper, original draft written by the inconcor

assignment, additional materials, memorandum written by technical person in charge, instruction for patent attorney's office, correspondence to and from the patent attorney, specification, drawing, power of attorney, letter of request for examination, search report before requesting examination, letter of official action, cited reference, corresponding record to and from developing section, corresponding report to and from Examiner, written opinion, written amendment, letter of request for appeal, notice of the appeal number, notice of registration and payment for resisting and maintenance fee (copy).

Each document stated above is filed in the file wrapper as occasionally and is never abolished until the file wrapper will be finally destroyed. Accordingly, a volume of the file wrapper will become larger, and larger storing space may be required for the company maintaining a large number of the application. Thus, many companies store the file wrapper in the form of micro film after the registration or abandonment of the application. Fig.1 shows the conventional administration of the file wrapper

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3. Present situation in the property of the application of the property of the

The questionnaire investigation related to the computerization for file wrapper is conducted for twenty-seven companies who belong to Japan Pacific Intellectual Properties Associate, 1st Committee. The results of twenty-four companies answered are analyzed in present status of administration of file wrapper. From the questionnaire, the results of four companies, who are advanced in the computerization, are further analyzed in detail, and their opinions are asked concerning a contrive point in computerization, difficult point, company's policy, etc.

The contents of the questionnaire are shown on the attached sheet 1. From various documents enclosed in the file wrapper, main documents, which include application paper, original draft written by the inventor, letter of assignment, specification, drawing, search report before request examination, official action, cited reference, written opinion and Letter of amendment, are selectively extracted, and are inquired for a time of computerization and storing media. A kind of the storing media is classified into paper, floppy disc, micro film, magnetic tape, photo disc and hard disc.

As regarding the file wrapper abroad, it is distinguished whether it may be handled in the same manner as of the domestic application or not. The term "state computerized" used herein means the state using absolutely no paper, whereas the term "state not computerized" means that the information is stored in paper form, exclusively.

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3-1 File wrapper storing media in view of number of application

On reviewing a breakdown of the company answered for the questionnaire, three companies hold file wrapper of less than 100, six companies hold 100 or more and less than 5,000, five companies hold 5,000 or more and less than 10,000, and nine companies hold 10,000 or more. A state of the computerization may be briefly classified into three types, which include a case storing in a paper form, a case storing in paper form with coexisting in other form, and a case storing in, so-called, computerized form, in which absolutely no document stores in paper form.

Among twenty-four companies, some of companies, which store file wrapper of 100 or more and less than 1,000, occasionally use of a floppy disc, however, stores only in paper form, without storing even in micro-film. In the company which stores those of 1,000 or more and less than 5,000, some of them do not computerize at all, whereas many of them store in micro-film, as well as in photo disc. In the company which stores the file wrapper of 5,000 or more and less than 10,000, all of them store partially in hard disc or in photo disc. Among nine companies which store file wrapper of 10,000 or more, two companies have completed computerization, three companies are in planing computerization, and rest of four companies are partly computerized.

From the results of the investigation, the company which files more applications, proceeds computerization. In a field of electric machine and parts thereof, which files application of more than 10,000, the computerization has already adopted or is scheduled to complete shortly. The tendency is considered that a number of the applications is so large and the company is familiar with hard wear for computerization.

3-2 A state of computerization in view of difference in document

Fig. 2 shows a state of computerization with respect to individual document to be stored, wherein a number of the company, which adopts the computerization, shows in percent (%) with respect to individual document, based on twenty-four companies as 100. In the Fig. 2 which shows the computerized percent at each step of the prosecutions, numerals shown on abscissa mean a time for prosecution, in which 1 is a time for proposal, 2 for filing application, 3 for filing examination, 4 for receiving office action, 5 for filing appeal, 6 for registration (allowance), and 7 for abandon. A black frame shows an absolutely computerized state, with using no paper; a slant lined frame shows a state in which both paper and other media are coexisted; a white frame shows a state storing in a form of paper; and a vertical stripe frame shows a state abandoned, existed nothing.

Documents which show the highest computerization percent are specification and drawing, and both show the same states. In view of the time series, the computerization percent shows the highest at numeral 6 of the registration, and thereafter reduces due to abandonment in part.

At any stage between 1 of proposal and 7 of abandonment, the assignment is stored as photo disc in two companies, as micro film in five companies, and rest of the companies store as paper until final stage. Among the two companies who store the assignment in a form of photo disc, one company also stores in paper form. Thus, a few of the company is found to computerize a document, which requires evidence (that is seal), together with other documents. That is to say, from the results above, it is also supposed that a computerized percent for the documents which require affidavit, such as power of attorney, letter of assignment, letter of license agreement, letter of abandonment, notice of seal replacement, letter of withdrawal application, etc. is as low as in the letter of assignment.

Besides these, almost of a search report before requesting examination, and cited reference, are not computerized in advance of the time of registration 6. "The search report before requesting examination" herein is a related patent, literature, etc. existed between the filing date and the request for the examination, and "the cited reference" herein is patent, literature, etc. which may be used as a proof for final rejection issued by the Japanese Patent Office. Since these documents are cited literature which are perusal at the Patent Office, laboratory and searching system, and are numerous, it is considered to be not required for storing as in computerized

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dispersion of the fact that the person is a description of person. The dispersion may be 4.5 MA trigger for the computerization and reserved and preserved because of

4-1 Computerized filing application plants from formula true per various

(1) Paperless plan

Japanese Patent Office (hereinafter referred to as JPO) promotes paperless plan from fiscal year of 1984 with aiming at shortening the examination period of time, expanding and fulfilling service for the industrial properties information, enhancing efficiency for managing works and promoting international cooperation. The object of the plan is to provide computerization for proceedings in patent application, and in registration of patent right. The paperless system is capable of further promoting to utilize the industrial property information by publishing official gazette written in CD-ROM with utilizing electronic data prepared by the system. Fig. 3 shows whole image of the paperless system at present.

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Concretely, since December 1990, an application for filing patent and utility model becomes acceptable through on-line system (FD is also acceptable), in addition to conventional proceeding with a document in form of paper (V1 system). On the other hand, as regarding a notice issued by JPO, a dispatch through the on-line system becomes also available since July 1993 (V2 system). Decreased a gradit ora reporte sele represent

declinates were all decorrected are until of more order tests for Ottomic drive

(2) Proceeding through on-line systems while has the too our success

The proceeding by on-line system is made through a computerized filing terminal, which corresponds to in JPO, through public line of "Integrated Service Digital Network (ISDN)" or "Digital Data Exchange Services (DDX-P)". In the proceeding by the on-line system, a filing document may be formalized by operating the terminal for filing patent, according to an instruction shown on a display, and is transmitted to JPO. Since almost of the terminal for filing the patent provides a function for checking the document, an error in the form may reduced. For the sake of confirmation, a proof of the contents received in the JPO or a return message of receipt with a filing number, can be received.

(3) Dispatch through on-line system

The document to be dispatched through the on-line system is held in a dispatching file in JPO for 10 days. During said period, the dispatch may be received by accessing a computer in JPO using the filing terminal. If such a access (request for dispatching) is not made, a document printed on the paper may be sent through mail service in the same manner as before.

The documents to be dispatched through the on-line system are as follows: (From Formality Section)

- 1. Letter of disposal 2. Order letter of amendment 3. Disposal for invalid application 4. Letter of disposal for invalid application (registration) 5. Disposal for invalid prosecution 6. Notice 7. Order letter for submission of material 8. Order for succeeding 9. Notice for returning sample 10. Notice for invalid claiming convention priority 11. Other notice 12. Notice for election of patent administrator 13. Notice for continuing prosecution 14. Notice for requesting full copy of family registration 15. Notice for submitting printed publication 16. Notice for evaluating technique of Utility Model (From Examination Section)
- 1. Office action (Notice of rejection) 2. Allowance for patent 3. Allowance for registration 4. Final rejection 5. Decision for unacceptable amendment 6. Notice 7. Order letter

(4) On-line peruse, etc. But because the appropriate the end, in 1995, and

Through the electronic filing terminal the application document filed with the JPO and the registration ledger can be perused. In more detailed, among the patent and utility model applications filed after December 1, 1990, as regarding a matter recorded in the file of JPO and a matter recorded in a part prepared by magnetic tape within the patent registration ledger, the application after publishing laid-open publication may be perused by anybody and those before the laid-open publication may be perused only by the applicant and representatives thereof.

Similarly, a request for issuing or proofing the evidence may be made through electronic filing terminal, however, the letter of the issuance or the letter of proof cannot be issued through the on-line system. These documents are to be received according to the designated method (at

Therefore the table reduces the block of the regions to expect the contract of

window of JPO or through mail service) with the service of the ser

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4-2. Development of LAN to oping a versions on applies because it ex

As an object for activating distribution of the internal information, simplifying and making certainty of internal proposal and proceeding for approval and saving an amount of paper used, by utilizing the electronic mail system, many of the companies are constructing internal LAN system. As for the patent application document, regardless of the fact that a security is demanded in certain level because of high secret, the computerization is promoted to make efficient and prompt proceeding with riding on a wave of office automation.

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description for elder et all de etc. Etc. Per receive de la description de la description de la description de

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5. Des Point for considering in computerization where the beautiful and beautiful and the considering in computerization.

5-1. Saving space in the many of the consequence of

Almost of the large company maintains a head office including section of an intellectual property inside the large city. However, a territory per se. in Japan is essentially small, and especially in a center of the large city, an area inclusive of working space occupied by one company is restricted. As a matter of course, some company stores file wrapper in a place, such as in plant located at country side, subsidiary company, storage company, etc. In such a case, depending on manner how to access the information, a confirmation of the contents in the file wrapper will sometimes become difficult. Under the circumstances, the computerization for the file wrapper is especially effective. Because, if the file wrapper of the original document, is stored at the country side, a problem for accessing the file wrapper information can be settled.

The electronic filing terminal, per se, sometimes occupies large spaces, thereby suppressing working spaces, however, these problems is not considered as serious, provided that at present, office automation system is progressed and improved and effective utilization of working environment

can be made, for example, by setting each terminal on individual desk.

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<u>5-2.</u> Cost

As discussed above, an expensive price of the area, together with the problems due to narrow land space, become significant burden to the company. For instances, a price for highly advanced commerce area in Tokyo is about ¥ 18 millions/m2 (in 1995), which is considerably higher than ¥ 2 millions/m2 in New York, U.S. On the other hand, in the case where it is stored at the country side, away from the center of the large city, difficulty in accessing file wrapper information may become problem, as above. The reduction of the storage space for file wrapper due to proceeding computerization, results in a remarkable merit, particularly in a center part of the large city, where the cost of the area is significantly expensive.

Further, on proceeding the computerization, an increment of cost for facility, such as hardware, software, etc., causes problem. If a large system including automation system for administration service is introduced, a certainty in procedure, and safety in administration are able to be improved, whereas the cost is considerably increased. In general, the system available for functions including patent administration, search for prior art and administration of computerized file wrapper, costs around from several million to several ten million yen. Besides these, running cost, personal expenses, etc. are required. Accordingly, in the company filing a large number of applications, expenses for accessing to file wrapper information and storing thereof are liable to arise problems. A merit of the computerization is thought to be large, however, a relative study on a balance between an object for the computerization and cost should be made.

Furthermore, since the electronic filing terminal is made under the specific JPO specification, someone points out that the terminal cannot be linked with other office automation (OA) machine, but such a disarrangement is seemed to be settled by, for example, unification of protocol, in future.

5-3. A Making efficiency in works again and behivora survives an Demaking en

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One of the merits for adopting electronic media (digital information) is that processing thereof is rather easy. Thus, it is greatly expected that the amendment of the specification and preparation of the documents, such as application claiming domestic priority, etc. can be made with ease, thereby saving a time for preparing the specification and making efficiency in works therefor.

In this connection, by utilizing the patent administration system inclusive of the electronic filing, it is possible to make efficiency in formality works, such as certain check of formality, reducing works for administrating revenue stamp, and tally impression, and discarding issue of power of attorney. Provided that LAN system inter company will be used, transmission and receipt of the specification copy can be made, thereby being capable of saving works, such as transmitting the document between the patent section and inventor, and the like.

On the other hand, in the case of adopting "a partial computerization" by way of paper in part, such that a proposal from the developing site is received in the form of paper, an operation for converting information from paper to electronic media, may be required. Thus, a person in charge of conversion is required with additional expenses, if a conversion works will rely on the other company. Further, an additional time (several days to several months) is required for conversion works, resulting in sometimes causing so-called time-lag, and causing inconvenience such that technical person in charge cannot use the information promptly. These problems, however, may be overcome by adopting the computerization at an entrance of the information source, that is, at the site of the inventor.

be utilized as it is, provided that the administrated data is computatived.

5:4. AzMań-machine/interface as yet besteved to size al ybodyme estimated and size allowed.

As discussed herein above, it is significant feature of the electronic information that random access of the information can be made with ease. Thus, an on-line peruse of the file wrapper becomes available even at a remote plant by completing a cooperative communication with LAN system.

But, since there is a limit in a display and showing rate thereof, it is difficult to simultaneously access to plural information, as before. For instances, in the case where a study is carried out by comparing plural related applications, or a study on the relation between plural rights, plural

sheets of the document or plural file wrappers are sometimes required to be overviewed. In such a case, the papers form information is rather convenience.

Under the circumstances, the electronic information is able to be printed out on paper, however, an amount of the paper is increased, resulting in going against a trend of "conservation of natural source". The Examiner of JPO is seemed to use 2 sets of displays in examination of the application. Other than such an Examiner's approach, the plural comparison may be made by practicing OA operation, or by combination use of the electronic media and conventional file wrapper, as disclosed below.

image data, is afraid to be hardly recognized due to a poor resolution of scanner, which cannot help expecting improvement of hardware.

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5-5. In MSecurity of Indiana en I garaguiza to over soil of access routed with a C

The electronic (digital) information may be easily duplicated, and is able to keep safely and confidentially by the duplication of the electronic information, etc. Since the media is liable to become impossible to access whole data, due to partial damage, a distinctive and special attention is essentially required in storing thereof, in a different manner from of the conventional file wrapper and a backup duplication. By conducting a periodical verification with a data base of out side, such as those prepared by JAPIO, an omission of the administrated data may be omitted. Such outside data base may be researched through the on-line system, and can be utilized as it is, provided that the administrated data is computerized. Since anybody is able to be received by way of CD-ROM or through the terminal, the paperless plan in JPO can be effectively utilized.

5-6 and Administration of information and he was a market and an appropriate

Almost of the data enclosed in the file wrapper can be uniformly administered. Since an error derived from a conventional personal works may be reduced, provided that the system is perfect, potential troubles, such as loss or missing of the file wrapper may be prevented.

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evidential efficiency of the electronic media, some of the documents are preferably stored in the form of paper, in order to secure an evidential power. Said documents include, for example, a letter of conveyance, original draft written by the inventor, etc.

Usder the dreumstances, the form of consuterization and Uras of

According to the revision of the United States Patent Law on January 1, 1996, a proof of a date for invention in Japan can become being considered. But, in order to enjoy said new practice, a laboratory notebook of the inventor (herein simply referred to as "laboratory note") satisfied specific conditions is required. In the case where there is such a document as being unavailable in computerization, the stored document cannot be simply unified. Regarding these cases, they are discussed in the following paragraphs, and are expected to set legalization, to form a guide-line and concrete law interpretation.

Hitherto, the matters to be considered on introducing the computerization, are discussed, however, these discussed matter should be varied depending on the conditions of each company. The computerized form is thought to become clear by clarifying "what is the object to establish the computerization by said company". Herein below an example form of computerization are shown in consideration of the merit and demerit above.

Since said file wrapper administration system is consected to inverse including system, appear are searching system appear are searching to the access to and an electronic filing system, from the access terminal decuments set up to the patent for the decuments.

As shown on Fig.4, each point to be considered in computerization has those affected positively and negatively in combination. The points affected positively are reduction of storing space ((1)-a.), reduction of area cost ((2)-a.), making works effective, ease of forming ((3)-a.), ease of accessing file wrapper ((4)-a.), and unified administration of information ((6)-a.).

The points affected negatively are increase of occupied space by terminal ((1)-b.), increase of facility cost ((2)-b.), burden for converting works, delay in starting utilization ((3)-b.), lack of man-machine interface in studying ((4)-b.), loss and damage of data ((5)-b.), and poor evidential

power ((7)-b.).

Under the circumstances, the form of computerization and form of working practice, which are to be established, are seemed to be related to points " what is the object (positive point) of the computerization" and "how overcome the negative point caused in the computerization"

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In the followings, examples of typical forms in view of the system side and of the working practice are shown and are studied on a relation with company's policy, who adopts said form, and on merit and demerit of the form.

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6-1. Typical form in view of system side

As for the typical form in view of system side, there are two types of computerization form in patent section, and computerization form from inventor site.

These forms are distinguished depending on the site where the computerization is made.

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- (1) Computerization form in patent section (Fig.5) The section (Fig.5)
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In the patent section, an application paper from invention group and a file wrapper administration system which works for storing document, such as inventor's original draft, etc. in the form of photo disc are newly provided. Since said file wrapper administration system is connected to internal LAN system, together with a patent administration system, a prior art searching system and an electronic filing system, from the access terminal, which is set up in the patent section, an access can be made to the documents electronically stored, or other data.

The documents such as application paper, etc. from the inventor's site to the patent section is transmitted through internal mail service in the form of paper or FD. An exchange of these documents between the patent section to patent attorney's office is made through common mail service in the form of paper or FD as it is.

In the patent section, the documents such as application paper, is electronically recorded with a scanner, which is communicated to the file wrapper administration system to be stored belectronically.

As for selecting standard for memory media in storing, for the documents which are required to be accessed frequently, a hard disc is used to make high speed access works, whereas for the documents accessed seldom, a photo disc which may be accessed slowly, is used to store a large amount of data with smaller number of the disc sheet. Concrete selection of recording disc concerning what document is stored in any disc, is intimately related to a working form which is discussed herein below.

Working on the stored document are carried out by displaying on a screen face on the access terminal, or with a paper base obtained from printer or facsimile machine.

2) Relation with a policy of the company parameter relative tracking safety

In a company who has main object for reducing a storing space of the file wrapper ((1)-a), a company who has an object for making efficiency of service ((6)-a), and a company who has an object for unifying administration of the information by computerizing the file wrapper ((6)-a), it is an effective system to suppress cost and enjoy the minimum merit, as well.

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The access to the stored document by the member in the patent section becomes easy.

A processing electronic information, such as domestic priority right is with ease in relating to make efficiency of works.

By contacting with other electronic filing system and prior art searching system, a patent administration system makes complete.

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4) Demerit

To carry out computerization works for the document (reading scanner) in the patent section, new personal disposition and a reconsideration of the works are required. ((3)-b)

utilizing electronic information. (3)-b)

image storing ((4)-b) suggested of your fields, and makes a sign away (1945))

Vanishing and destroy of the data due to accident, etc. will be caused. ((5)-b) Accordingly, it is seemed that a resolution in the system aspect by duplicating the system, and a resolution in service working by coexisting with the file wrapper are to be required.

Depending on the stored documents, there is lack of evidential power. ((7)-b) Accordingly, it is seemed that as for the letter of assignment, a resolution in service working by storing in form of paper and by establishing sever electronic administration system are to be required.

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(2) Computerization form from inventor site (Fig.6)

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Fig. 5, but, between the patent section and inventor's site it is communicated with internal LAN system. An electronic converting facility in the patent section is unnecessary.

The inventor electronically transmits electronic document, such as inventor's original, etc. which is electronically prepared by personal computer, etc., to the patent section through internal LAN system. The patent section temporary stores the document received in patent administration system, and automatically assigns receiving number. Each person in charge in the patent section is able to access to patent administration system from individual access terminal and to read the contents of the electronic document accepted

Exchange of the document between patent section and patent attorney's office is made through ISDN line.

From the inventor site access may be made through internal LAN system not only to prior searching system and patent administration system in the patent section, but also to the stored document in file wrapper administration system.

Relation with company policy and make a surface of the contract of

In a company who has main object for completing patent information administration system ((6)-a), a company who has an object for making efficiency of works accompanied with a reduction of electronic converting works, and company who has object for progressing internal computerization by establishing easy access to the document from any place ((4)-a), etc. it is a system form which may be maximally enjoyed electronic merit.

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Computerization works in the patent section becomes unnecessary, thereby being capable of expecting reduction of labor cost.

Since the document has been computerized at a time for acceptance, an available time for utilizing electronically stored document becomes quicker.

of A transmission to the patent attorney's office becomes easier

The inventor at remote place becomes possible to access data in the patent sections additional displacements of place as a primary placement of the patents
A request for filing application to the patent section becomes easier.

administration system, an accepting personal may be omitted:

There is no problem for resolution of the inventor's original. The expectation

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Since no information is available except electronic information, a manmachine interface, such as study time for requirement of application, intermediate review, etc. are lacked ((4)-b) Under the circumstances, a solution in service working such that a paper envelope is prepared on demand, etc. is thought to be required.

There is a problem of hindrance and safety in transmission of electronic mail. ((5)-b) Particularly, an order to the patent attorney's office through ISDN is seemed to have a problem at present.

Construction of internal LAN system becomes indispensable, resulting in bearing expense. ((2)-b)

A fear for missing and damage of data due to accident, etc. ((5)-b), a lack of evidential power ((7)-b), are the same as above.

6-2. Typical form in view of practice in work

The typical form in consideration of service work has 3 types, i.e. coexisting type, disposal type and compromised type.

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A study of the invention is mainly made at (a)time for deciding file of the application, (b) time for reviewing the application specification before filing with the Patent Office, (c) time for deciding request for examination, and (d) time for intermediate studying. These forms are distinguished each other depending on what kind of power is applied.

Serve (1) Coexisting type (Fig. 7) and reasonable same are really in the region

1) Summary

This type is the case where all paper in file wrapper is stored at least

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between (a) time for deciding file of the application, and (d) time for intermediate studying, disclosed above. That is, this case is of fully coexisting with a conventional paper type file wrapper, and a reconsideration due to introducing computerization system is able to be confined to the minimum.

The electronic storing is made by electronically holding all documents, regardless of kind thereof to maintain unified administration. On the other hand, paper in the file wrapper is remained until registration, thereby maintaining efficiency maximally for working at a time for reviewing the contents of invention.

Since frequency in access to the file wrapper system becomes remarkably lower, repair and utility for internal LAN system are unnecessary, and a hard disc which is slow in access rate may be used as a recording media.

12) Relation with company's policy of the wolfers of award in the large

This type is preferable for the company who is intended to overcome the negative factors, which are caused due to introduction of the electronic storing system, such that lack of man-machine interface at a time for study ((4)-b), fear for missing and damaging data due to computerization ((5)-b), and anxiety in evidential power ((7)-b), from service working. In particular, the work already established may be employed as it is, thereby easily introducing thereof.

However, this type is not suited to the company who has an object reducing storing spaces ((1)-a).

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3) Merit

Since paper type file wrapper is remained until the time of registration, an interpolation may be freely made. By referring to the interpolated part, etc. ,the previous discussing matter may also be confirmed.

If an application concerning the important technique, such as enforced engineering is to be perused for deciding the request for examination, the paper type file wrapper is more convenient.

Since the paper type file wrapper is remained in combination, this type of the form is more economically secured with safe and confidence, comparing with a duplication of the system per se.

Even after registration, an important letter such as letter of assignment,

letter of negotiation, letc., may be conveniently used, since these documents are stored in paper form.

Reconsideration of the service works may be minimized and the service operation hitherto may be practically applied

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4) Demerit

Storing space cannot be reduced. All ways reaged the social?

In the case where paper type file wrapper is discarded, an access to electronic administration may be required. However, a trouble, by which said document cannot be accessed, may be caused that sometimes an operation method is not familiar with a person in charge, since the access works have not been made frequently so far, and the operator is not always present, even if the operator is to be appointed.

(2) Disposal type (Considering save space) (Fig.8)

1) Summary

At each specific time (a) to (d) defined above, this type is to output the document electronically stored onto paper, and said document is discarded after completing study thereon. Thus, the storing space for said paper type file wrapper makes unnecessary, that is, in consideration of the man-machine interface at the studying point, the document is to output at the time for studying. This is the form which is the most similar to paperless system in office, and contributes to reduce the storing space in the patent section mostly.

In this working form, any paper type file wrapper is not prepared at all times for studying a necessity of the solicited application, for checking application specification, for requesting examination, and for checking at intermediate. Accordingly, printing out of the electronically stored document is necessary on demand.

Since an access to the electronic storing system becomes frequently, a memory disc for the electronic storing system is preferably hard disc which is with ease in access. In this connection a working personal for forming paper type file wrapper by printing out is to be required. Further, repair and utility of internal LAN facility is also required.

2) Relation with company policy and making the land would be included by

The disposal type is preferable for the company who has an main object for reducing storing space ((1)-a). However, since this type causes

lack of man-machine interface at study ((4)-b), rising paper cost ((2)-a), and poor evidential power ((7)-b), it is unacceptable working form for the company who takes serial view of these features above.

3) Merit

The storing space can be largely reduced.

Since no paper type file wrapper is present, handling and arrangement of the file become completely unnecessary.

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Remarkable reconsideration in the overall service works are required.

Amount of paper used is increased resulting in rising cost. ((2)-b) Accordingly, a solution in service working is seemed to be required such that unnecessary paper does not print out as possible, and study is made by showing record on terminal display.

Since printing output is made whenever contents of application is studied, time and laborer are consumed. ((3)-b)

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This type is to check the contents in a form of paper at a time for deciding filing application (a), and time for checking before filing application with patent office (b), followed by discarding thereof, and thereafter, only required document which is electronically stored is output onto paper (d). The paper type file wrapper is stored until registration. That is, this is an intermediate type between coexisting type (1) and disposal type (2) above, and is intended to adjust the reduction of the storing space with man-machine interface on studying.

Normally, since among the application filed with the patent office, those which are requested for examination and receive office action, are considerably restricted, this type contributes reduction of storing space and reduction of labor cost for preparing paper type file wrapper.

intermediate time, quickly accessible media, such as hard disc, etc. is

preferred as a recording media for electronic storing system.

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both reduction of storing space (1)-a s, and maintenance of man-machine interface at a time for studying) ((4)-b).

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Since the paper type file wrapper is prepared only for the application which receives office action, a preparation work for paper type file wrapper may be reduced comparing with those of the old type (in which paper type file wrapper is prepared for all application filed with Patent Office).

Provided that the request for examination will be filed at the 7th year from the filing date, storing space of paper type file wrapper required at least for 7 year can be reduced.

The document studied at the intermediate time is able to put in the file wrapper, and may be utilized for studying on next rejection.

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A person in charge of administration for printing output to prepare the paper type file wrapper at intermediate time is required, and a reconsideration in service works, for example, which document will be output for printing, and the like, is required.

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7. Problem in feature and selections and rank make and come to make believe

7-1: Computerization for letter of assignment

Discard for original letter of assignment after computerization, and forming the letter of assignment in computerized base, are required to be considered for evidential power in a court.

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Followings are discussed separately in cases of micro-film and electronic information media.

(1) Evidential power of micro-film

At present, micro-film is said to have sufficient evidential power (possibility for accepting approval as evidence), and in a practical business, a film per se., is recognized as document, and a process for taking of the evidence is carried out by submitting the documental evidence.

However, in order to enhance evidential power of micro-film, legal conditions (a) to (e) below are thought to be satisfied. Said conditions are (a) proof for surely existing original at a time for taking photograph, (b) proof for correctly copying thereof from said original, (c) proof for preparing thereof in accordance with ruled process, (d) proof for no doubt in storing condition thereof, and (e) notarized exemplification. (Refer to Micro-film Guide by Tsutomu Yoshida, Nihon Micro-film Shashin Kyokai).

Accordingly, in order to satisfy five conditions (a) to (e) above, sever preparation and administration system of the micro-film are to be settled.

(2) Evidential power of electronic information media (optical disc. etc.

Different from the micro-film, there is a problem in legal approach how carries out a process for proofing evidence. In court decision of Osaka High Court on March 6,1978, Suit of Tanakawa Karyoku, concerning an order of submission for document is requested regarding magnetic tape for computer; it says that the magnetic tape can be the evidence.

According to said decision, electronic recording media are original, document printed out is full copy, and in the process for proofing evidence, the document printed out is required to be submitted by attaching with the electronic information.

A formal evidential power sometimes requires proofing that, for example, electronic recording media is inputted by computer having standard function, in a process of conventional service, during rational period from a time for starting the matter to be described, or proof that an input, administration, etc. of computer is made impartially. On the other hand, when an identity of electronic recording media and document printed out (in other words, substantial evidential power) is disputed, the judge will order consultation of a record in electronic recording media and an examination of witness who made printing out, is taken place. (Chushaku Minjisoshoho (7) by Tokushige Yoshimura, Yuhikaku; Jurist No.1028 "Shin shu shoko no Shoko shirabe" by tomoro Kasuga.)

The evidential power of assignment electronically stored may be referred to the judicial precedent above.

nest): Letter of assignment in paper form to the letter of assignment in paper form

Since provided that it is stored in a form of image data, read out by scanner is considered to be the same as by photographing micro-film, and on the document printed out there appears sign or seal, the conditions (a) to

(e) for micro-film above are considered to be applicable as they are

That is, as for the condition (a), a letter of certificate certified by the person who recognizes said original being true, may be recorded together with the assignment into one sheet as image data. As for the condition (b), a responsible observer is attended to ask him certifying "being correctly copied", and writing to the effect, followed by signing and sealing on the recording certificate. Said recording certificate is recorded onto one sheet together with a letter of assignment as an image data. As for the condition (c), said electronic recording media is to be prepared according to a rule of electronic media recording in a process of daily works. As for the condition (d), a scheme for prohibiting write into from outside systematically.

On the other hand, when it is stored in character data, the paper type letter of assignment is strictly an original, and the character data inputted is mere one type of the memorandum. Accordingly, a document prepared by printing out of the character data has little possibility in accepting evidential power.

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When the inventor inputs his sign electronically, a problem may be caused whether said electronic sign may be said of the assignee, i.e., inventor, or not. That is, whether a declaration of intention for the assignment by the assignee may be acceptably recognized from said electronic sign. Further, another problem is seemed to be caused whether the document printed out may be identical with the electronic information media.

The later is seemed to be in accordance with judicial precedent above, whereas the former cannot help expecting a solution by future technical and legal rearrangement accompanied with an improvement in electronics commerce, digital cashing service, and the like.

As studied above, even though a content recorded on the electronic recording media may be submitted as an evidence in a cite of court, a considerably sever record, settlement of administration organization, and rearrangement of the system are to be required. For the company arming at making effectiveness in works by the introduction of computerization, these requirements are seemed to give him negative advantage.

Accordingly, at present it is thought to be simple and safe approach

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7-2. Computerization of laboratory note

A novelty of the patent filed with the U.S. Patent Office from Japan with claiming priority of Paris convention, can be retracted as far as the priority date, so far. However, on January 1, 1996, Section 104 of the U.S. Patent Law is revised that the novelty can become being retracted further to the date of the invention by filing an affidavit under Rule 131. By said revision, in order to prove the date of the invention as an evidence, many of companies started to keep laboratory note in our country.

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However, a storing space for laboratory note is seemed to be largely expanded in future. Said storing space surely becomes larger than those for the application file wrapper.

Under the circumstances, in the most of the companies, it is thought that the laboratory note will be stored in a computerized form. In such a case, it is of great interest how (1) a form of the computerization, (2) evidential power of the computerized laboratory note, and (3) electronic sign which is required on the laboratory note, and for which confirmation by the third party is provided, are treated.

- (1) Form of computerization for laboratory note and the computeriz
- $\mathbb{S}[1]$) Semi-computerized type was independent matrices and the matrices where

A preparation of the laboratory note is made in written form as conventional, and on storing thereof, photo disc, micro-film, etc. are used. This type takes serious view of space.

o2) Complete computerized type approach of a possible to read of the

administration is also made in a lump. In such a system electronic sign is required for the confirmation by the third party.

may 3 m) - re Others - which for any meaning meaning and an appearance from the state of the sta

Basically, the computerization 1:)::, 2) have considered, but an intermediate type which is arranged these, is also considered.

(2) Evidential power of laboratory note and a second as a company of

Since a precedent deals in the U.S. Patent Office cannot find so far regarding whether the computerized laboratory note may have an evidential power for sufficiently proofing a date of the invention or date for

reduction to practice of the invention, a final decision must be expected for case study in future. Of course, it is true to not consider that the laboratory note has lack of evidential power.

However, at present, on practicing the computerized laboratory note, at least an effort for enhancing the evidential power is required.

In order to rise the evidential power of the computerized laboratory note, it is thought to be studied comparing with conditions for proving the date of the invention, which is required for a paper type laboratory note.

The paper type laboratory note satisfies at least the following conditions to secure the evidential power; a. being of book type (loose leaf type is not preferable), b. describing date, c. written in ink (not in pencil), d. no space remained, and e. being signed by the inventor and witness.

Among these conditions, conditions as to desis to prove that the content of the laboratory note cannot amend nor rewrite afterwards, and condition the laboratory note, it is the minimum requirement to fulfill these two requirements for proving the date of the invention.

- The sign by the inventor alone is not sufficient for proving that a content of the computerized laboratory note is true and not willful false (Price v Symsek, 26 USPQ 1031, 1036 (Fed. Cir. 1993). Thus, a sign by the third party (witness) is generally required. In the case of the complete computerization type, the sign will be electronically made, which is discussed in following paragraph.
- changeable afterwards were a for a movement of the interval of the computerized aboratory winote is professional changeable afterwards were a for a movement of the computerized aboratory winote is professional.
- a) Input of date is preferable by automatic system. At any rate in order to exhibit that a program can be neither revised nor arranged, a submission of program is understood as indispensable. On the other hand, when the paper type laboratory note is stored in a micro-film in semi-computerized type, a trouble is not particularly caused since the micro-film is understood as same as a document, provided that the requirement discussed in 7-1.(1) is fulfilled.
 - b) When the laboratory note is stored and administered in complete

computerized type, the content of the laboratory note is a secured so that the content should never be changed during the storage.

- c) A proposal to advance evidential power for the laboratory note in terms of a date which is inputted by fair third party organization, electronic sign and computerized laboratory note per se. are also proposed. (The electric notebook by Howard M. Kanare, American Chemical Society, Washington D.C. (1985)). However, a study on various points such as keeping secret, etc. is necessary.
- sec(3) DEvidential power of electronic signs for more than the second of the
- specified as written by the person himself (for example, establishment pass word, or introduction of audio recognition system). And after signing by a person himself, a system must be the one such that a content is maintained without any change. (For example, a system in which inputted content is protected)
- business, and is gradually expanded to be approved by local law in each states. (AIPPI Japan, U.S. Intellectual Property Seminar, Internet and Intellectual Property (1996.5.10)

As discussed above, under the present situation where precedent cannot be found, the laboratory note is also preferably stored as article in a form of document, in view of evidential power.

As such, it is the present status that a computerization for letter of assignment and laboratory note are to be understood as being negative.

Yelder a contract to the common to the common the common terms of
However, it is nearly no doubt that in future a computerization of the documents will be proceeded more and more, and a problems caused thereby is to be technically overcome and is expected to be solved by revision in Law.

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8. Ad Conclusion come a set apreced to air a true confidence and another modern

As discussed hitherto, in the present paper, several typical computerization forms of the file wrapper system are considered in relation to a policy of companies for computerization, but the consideration in view of the other feature may also be made. In particular, since a form of the

rolleouper lacage eath asodoid triominiobrisidas computerization for each company is so complicated and widely varied, it is not believed that all opinions in the companies are collected and studied. On the other hand, according to an improvement in electronic engineering and in establishment of new law, etc., a new computerization form which is rsgag nolisoliggA different from those existed, is thought to be created. We hope that the present paper is to be of certain help in studying future computerization for the companies. isnibho lo tettod AcetquatenA noitealliden8 Drawlings noites solifO (Motice for reason (nombejst le Olled reference

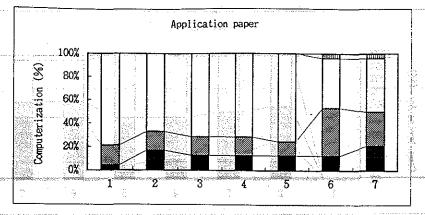
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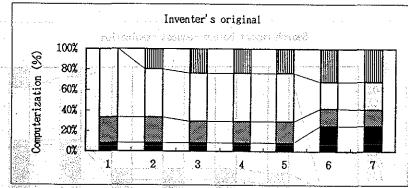
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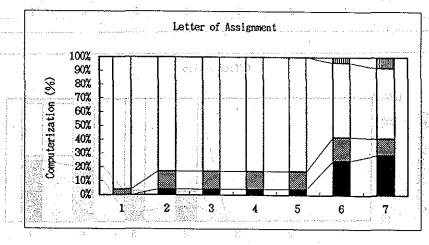
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				包袋	Filewra	apper	Micro fil	m	

Fig.1 Conventional administration for filewrapper







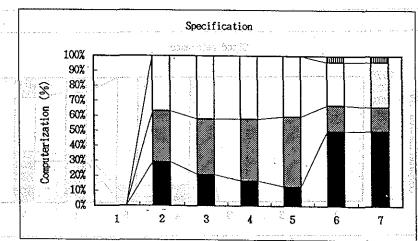
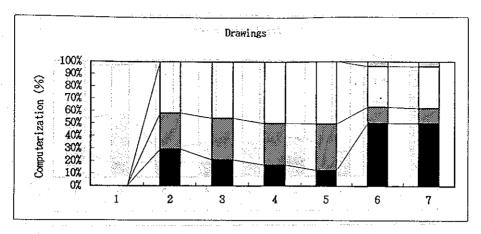
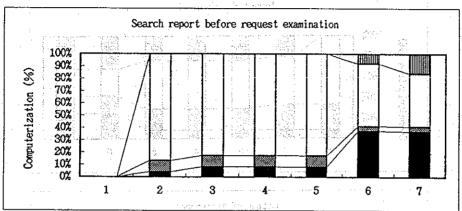
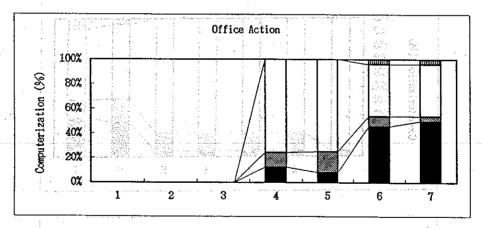
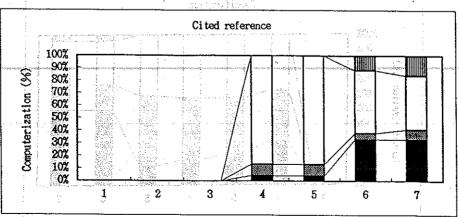


Fig. 2

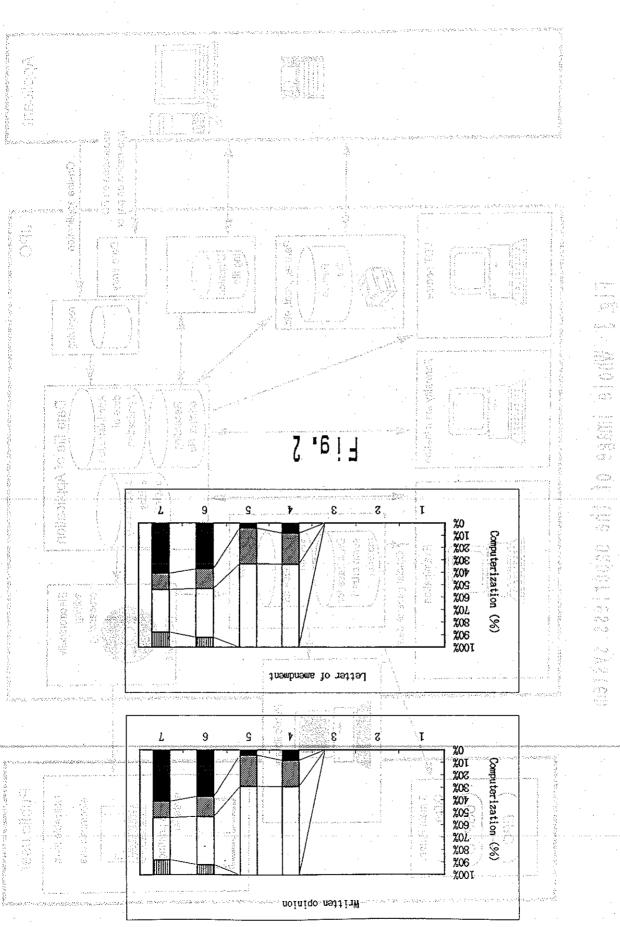








§ Faig. 2



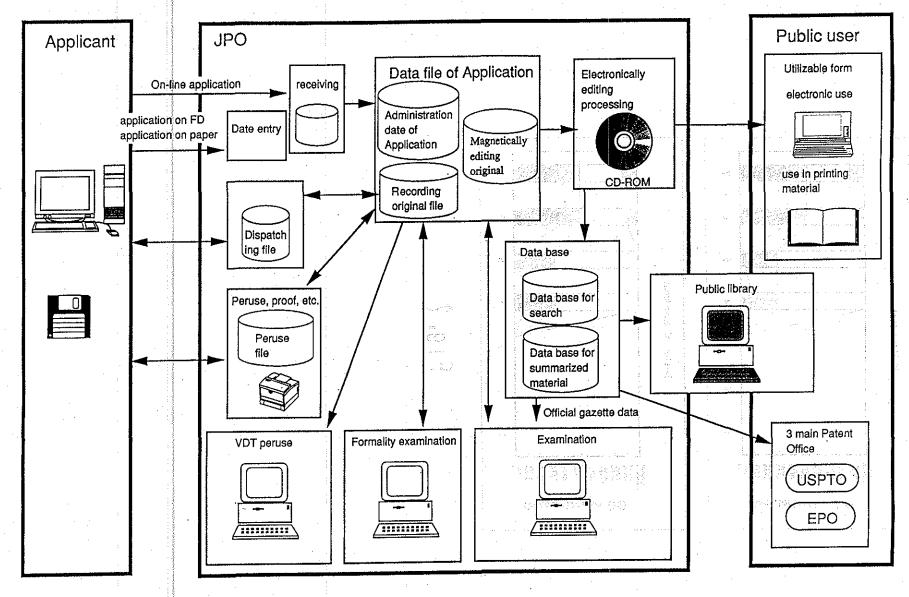


Fig. 3 Whole image of the paperless system (Reffer to Home Page by JPO)

COLD DIRE

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Historical background, Environment, Circumstances

- No room for filewrapper administration space (increasing storing site ⇒ and number of application)
- Reducing number of person ⇒
- Introducing V1. V2
- Development of LAN

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a (factor positively acted)

Storing space of filewrapper can be reduced.

Resulting in decreasing land price doe to reduction of space.

Processing and utilization, which is capable of reducing work for preparing paper type filewrapper can be easily made.

Access to storing document can be made from any place.

Unified administration of information becomes possible. Perfection in patent information system can be attained in combination with other system.

b (factor negatively acted)

Computerized storing system suppresses onto working space.

Depending on a system form to be introduced, a facility cost may be raised.

Problem on conversion,

Problem for available time.

Lack of man-machine interface in studying.

Necessity of duplication.

Doubt for evidential power.
Process for making system to enhan
ce the evidential power is too com
plicated.

<u>темичае</u>й бучетко

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What is an object (positive factor) of said to proceed computerization of filewrapper information ?

(1) Space

(2) Cost

(3) Making efficiency

interface: 1 Augustu 20

of information

(4) Man-machine

(6) Administration

(7) Evidential power

Tokher, overtic

(5) Security

in works

② How to overcome negative factor ?

6. Form

6-1 Typical form in view of system side

(1) Computerization form in patent section

(2) Computerization form from inventor site

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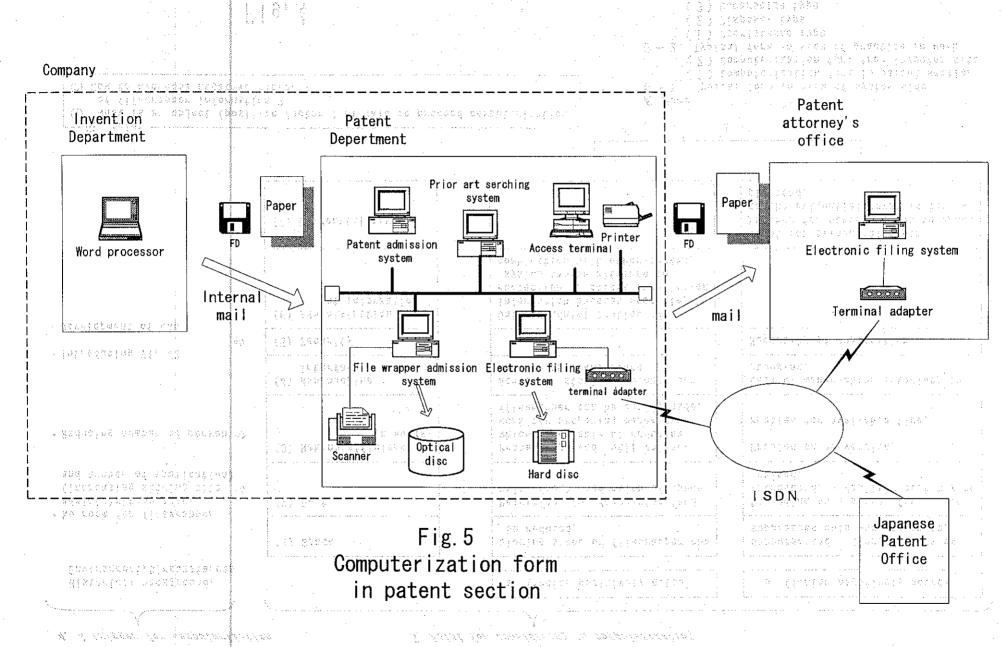
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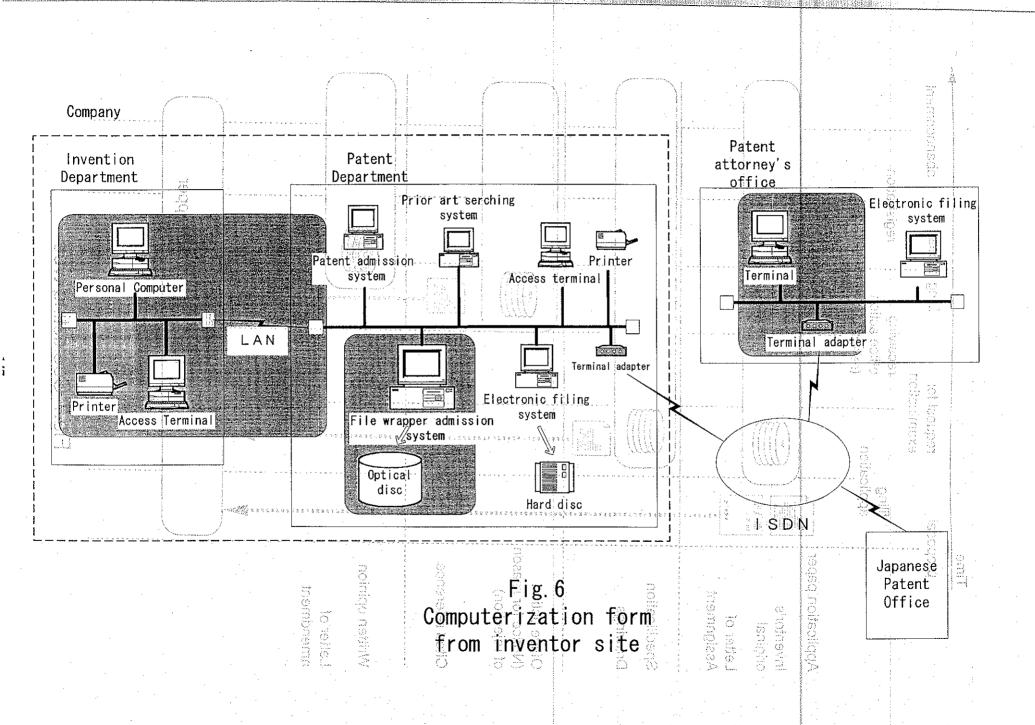
6-2 Typical form in view of practice in work

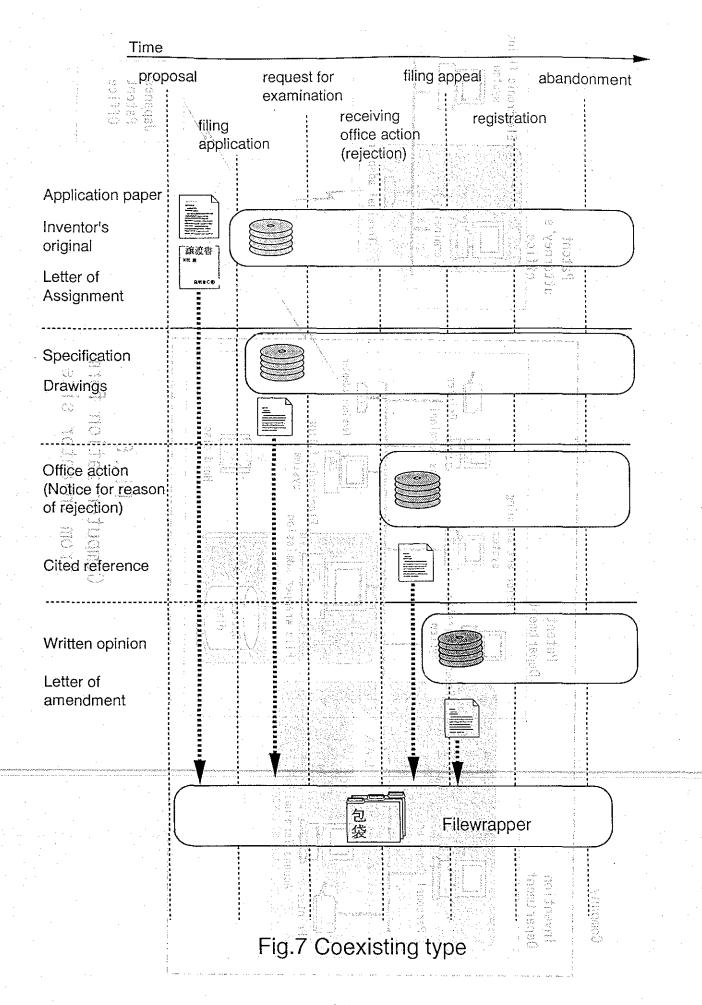
(1) Coexistence type

(2) Disposal type (3) Compromise type

Fig. 4

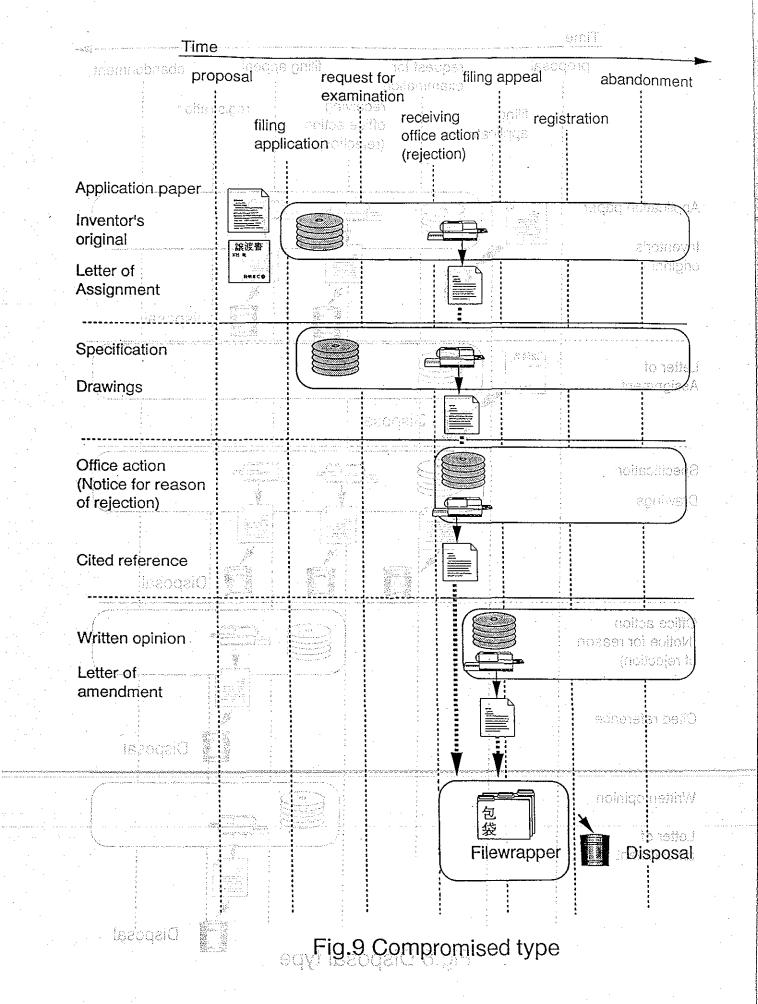






equi be Fig.8 Disposal type

Disposal



Attachment (Questionnaire Form) as only pasamon and not are symmologic
(A) Room what step an information was computarized?
eld <u>BT Answered</u> ets dose at albert berne a system ste <u>l</u> ble
attached, identified with) moitoels. If plural inedia were spynaghouse
Name () Phone (Alazemba Lejauria estave
sid <u>2 File wrapper Information and wadio hosamonh yan il (b)</u>
(1) At present, among file wrapper of the domestic application, how many
file wrapper is stored in a paper form ? It wise subset because the membook
ali a a) Less than 100 mb) 100 or more, less than 1000 require side t (5)
c) 1000 or more, less than 5,000
d) 5,000 or more, less than 10,000 di ko as o mas shi tsoni A (n
e):10,000 or more la subsença es tou el contextration de la contex
(2) Storing Place?
a) In Pat. Sec. b) In own area, inclusive of subsidiary
Commission company ad Other ()
(3) After registration, how long information (including file wrapper) is
stored?
a) No limitation b) With limitation; ()years
(4) At present, among file wrapper of foreign application,
how many file wrapper is stored in a paper form?
a) Less than 100 b) 100 or more, less than 1000
c) 1000 or more, less than 5000
d) 5000 or more, less than 10,000
e) 10,000 or more
3 Management of file wrapper of domestic application
(1) Please show the present state.
a) No proceeding computerization, and no plan in future.
b) No computerization at present, but plans thereof.
From about ()year, ()month
c) Computerized part of document or part of process.
From about ()year, ()month
d) All computerized. From ()year, ()month
(2) For the company answered a) or b) in (1) above, please answer reason,
if it is not introduced yet.
(

	Followings are for the company who answered c) or d) in (1) above and all the
	(3) From what step an information was computerized?
	Please write a stored media in each step on a Table
	attached, identified with numerals. If plural media were stored, please
	write plural numerals. seed 4
	(4) If any document other than mentioned min when Table
	attached, are stored as an information, please write a name of the
	document, and stored media onto the Table: and a mi bereats at reagant with
	(5) Is file wrapper of the foreign application different from the above in its
	handling? OUO, a contract that see the contract (a)
•	a) Almost the same as of the domestic one of the company of 600.6 (6
	b) Computerization is not so proceeded as of the domestic one.
	c) Others.
	in a substitution of the state of substitution of the substitution
	() restart Thank you for your kind cooperation.
	(3) After registration, how long information (including file wrapper) is
	stored?
	a) No fimitation b) With Emitation; ()years
	(4) At present, among file wrapper of foreign application,
	bow many file wrapper is stored in a puper form?
	ea) Less than 196 b) 190 or more, less than 1990 comes to the common of 1990 common less than 5000 common common sections are common co
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	e de la company de la comp La company de la company d
	A Macagement of the weaper of domestic application
	(1) Personalism discussion de la company
	a) No proreccios computerization, and no plan in futige.
	b) iko cempatanciah at present, her plans thereof.
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an san	
	From about () reath
	d) All computerized. From ()year; ()month
·]	(2) For the company apawered a) or U in (1) above, please answer reason
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Form for storage 1:FD, 2:Hard disc, 3:Optical disc, 4:Microfilm, 5:Magnetic tape, 6:paper, 7:Disposal

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U.S. ATTORNEY-CLIENT PRIVILEGE FOR FOREIGN PATENT AGENTS

Jack E. Haken, Richard A. Weiss, Gertjan Kuipers*

ABSTRACT

The paper addresses how U.S. courts have dealt with the attorney-client privilege in the context of communications involving patent agents. All communications relating to activities in the United States are governed by the American rule, whether or not foreign parties are involved in the communication. When the subject of the communication does not "touch base" with the United States, the issue will generally be governed by the law of the country to which the patent activities relate.

Recent U.S. court-decisions have strictly construed Japanese law, and have not afforded attorney-client privilege to communications between Japanese patent agents and their clients.

1. Introduction

This paper addresses how U.S. courts have dealt with the attorney-client privilege in the context of communications involving patent agents. That privilege is often invoked in litigation to try to protect documents from being obtained during discovery.

Though, it is well settled now that the attorney-client privilege is available for certain communications involving patent attorneys, the situation for communications involving patent agents is not as clear. One of the differences, and the important one in this context, between a patent agent and a patent attorney, or an attorney in general, is that a patent agent is not a member of the bar of a court.

In order to succeed in claiming the attorney-client privilege, a number of elements must be satisfied (these elements are outlined in Section 2). This paper will not focus on each and every one

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of those elements. Rather, it will be assumed that most requirements are satisfied, and the privilege would exist if the communication was made or received by an attorney. Whether the privilege would also exist if a patent agent was involved in the communication will be the subject of Section 3. In that section the "member of the bar of a court, or his subordinate" element will be discussed and applied to patent agents in a number of different situations.

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The attorney-client privilege encourages complete disclosure of information between an attorney and a client to further the interest of justice. This is achieved by preventing disclosure to third parties of confidential client communications made to an attorney by a client seeking legal advice.²

While the attorney-client privilege serves a very important purpose, courts are aware that it may nevertheless be an obstacle to the investigation of the truth. Accordingly, the attorney-client privilege is applied strictly.³ The party asserting the attorney-client privilege has the burden of establishing the following traditional elements:

(1) the asserted holder of the privilege is or sought to become a client; (2) the person to whom the communication was made (a) is a member of the bar of a court, or his subordinate and (b) in connection with this communication is acting as a lawyer; (3) the communication relates to a fact of which the attorney was informed (a) by his client without the presence of strangers (c) for the purpose of securing primarily (i) an opinion of law or (ii) legal services or (iii) assistance in some legal proceeding, and not (d) for the purpose of committing a crime or tort; and (4) the privilege has been claimed and (b) not waived by the client.⁴

A simple declaration stating that the privilege applied is not enough, and a failure by the asserting of paragraphs of paragraphs and a failure by the asserting and a fail

¹Upjohn Co. v. United States, 449 U.S. 383, 389 (1981).

²Burroughs Welcome Co. v. Barr Laboratories, Inc., 25 USPQ2d 1274, 1275 (E.D. N.C. 1992)

³In re Ampicillin Antitrust Litigation, 202 USPQ 134, 137 (D. D.C. 1978); Burroughs, 25 USPQ2d at 1275.

^{*}United States v. United Shoe Machinery Corp., 85 USPQ 5, 6 (D. Mass. 1950), 1980, 3-30, 400, 45

party to prove any of the above elements may result in a denial of the privilege.

Though a detailed discussion of all of the elements is outside the scope of this paper, it is clear from the elements listed above that communications between an attorney and a client "must be made both 1) with the intent that they be confidential and 2) in connection with a request for legal advice."⁵ Accordingly, courts have identified the following types of patent law related documents as not being protected by the attorney-client privilege:

- 1) Client authorizations to file applications and take other steps necessary to obtain registration; 2) Papers submitted to the Patent Office;
- 3) Compendiums of filing fees and requirements in the United States and foreign countries for various types of applications;
 - 4) Resumes of applications filed and registrations obtained or rejected (including dates and file or registration numbers);
 - 5) Technical information communicated to the attorney but not calling for a legal opinion or interpretation and meant primarily for aid in completing patent applications;
 - 6) Business advice such as that related to product marketing;
 - 7) Communication whose confidentiality [the client] has waived;
 - 8) Communications which pass through an attorney who acts only as a conduit for a third remembried and effort a rive. Helt bett geldeldteap party;
 - 9) Transmittal letters or acknowledgement of receipt letters devoid of legal advice or requests for such advice and disclosing no privileged matters[; and]
 - 10) Patent disclosures, draft applications, technical non-legal material related to the final patent, or studies of the prior art.6

Courts, however, have also made clear that the attorney-client privilege could be available to certain other types of documents, including "prior art searches and discussions and documents related to the prior art if they contain or reflect communications made in connection with requests for legal advice or legal opinion as to patentability" and "drafts of replies and responses prepared in response to questions or decisions of a patent examiner."7

⁵<u>Burroughs, 25 USPQ2d at 1276.) au CWCLAS was a simulatang it metaly solvengasi</u> Westjersposfe

⁶Id. (citations omitted).

⁷Id. (citations omitted). 9. 1945. Als 6. 1948. 1844. April 2004. April 1946. Sept. 1844. April 1946.

In the rest of this paper, it will be assumed that the attorney-client privilege would apply to a specific communication if it was made by an attorney. Accordingly, the applicability of the attorney-client privilege hinges only on the fact that a patent agent, rather than a registered attorney, was involved in the communication.

As opposed to registered attorneys, patent agents are not "members of the bar of a court."

Though this is one of the traditional requirements of the attorney-client privilege, some courts take a more liberal approach. For example, in <u>In re Ampicillin</u>, the fact that a patent agent was not a member of the bar of a court, did not quickly dispose of the issue of whether the attorney-client privilege was applicable. The court <u>In re Ampicillin</u> held that the attorney-client privilege is available for patent agents in the role of an "attorney" in certain instances.

This and other holdings will be discussed in the following section on the applicability of the attorney-client privilege to communications involving patent agents.

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3. The Application of the Attorney-Client Privilege to Patent Agents and the Attorney-Client Privilege to Patent Agents

The attorney-client privilege basically involves two parties, i.e., the "attorney" and the "client". Patent agents can either acta as the "attorney" or the "client". For patent agents that are involved in the communication from the side of the "attorney", the traditional "member of the bar of a court, or his subordinate" requirement becomes relevant. Accordingly, the main focus in the analysis of the case law will be directed towards patent agents in this position.

The analysis of the case law will be divided between cases in which U.S. privilege law will apply, and cases in which foreign privilege law has an impact. This influence of a foreign privilege law is based on the federal common law principle⁹ of comity. This principle holds that while no law has of its own force any effect outside the territory of the state or nation from which its authority is

THE CAMP SECURITY OFFER VOLUME HAS A SECURITY SECTION.

⁸In re Ampicillin, 202 USPQ at 143.

⁹Since patent infringement cases are of a federal nature, federal common law principles will apply.

See <u>Chubb Integrated Systems Ltd. v. Nat'l Bank of Washington</u>, 224 USPQ 1003, 1010 (D. D.C. 1984); <u>Willemiin Houdstermaatschappij v. Apollo Computer</u>, 13 USPQ2d 1001, 1012 (D. Del. 1989).

derived, foreign laws may, within certain limits be given effect. One of the main principles of comity is that comity will not extend to foreign law or rights based thereon if it opposes settled public polity of the forum nation. Thus, since "the United States has a strong interest in regulating activities that involve its own patent laws, all communications relating to patent activities in the United States will be governed by the American rule, "12 i.e., the federal discovery rules will govern communications "touching base" with the United States in a patent infringement action, 3 whether foreign or domestic parties are involved in the communication.

In cases involving "communications with foreign patent agents as to applications for foreign patents," however, the "introduction of the foreign elements creates a whole new set of variables." For example, in the United States there is no inhibition against the lawyer's direct handling of the application with the United States Patent Office without involving a patent agent, while for the prosecution of an application in some foreign countries such representation is not possible. The difference between communications with United States patent agents about application for United States patents and communications with foreign patent agents as to applications for foreign patents is meaningful, as is evidenced by a statement to that extent by the court in Mendenhall. The communications with foreign patent agents as to foreign patent applications will normally be governed by the law of the country to which the patent activities relate.

When a patent agent is in the role of the "client", applicability of the attorney-client privilege

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¹⁰ In re Ampicillin, 202 USPQ at 144.

¹¹Duplan Corp. v. Deering Milliken, Inc., 184 USPQ 775, 788 (D. S.C. 1974).

¹²In re Ampicillin, 202 USPQ at 144.
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¹³Duplan, 184 USPO at 788.

¹⁴Mendenhall v. Barber-Greene Co., 217 USPQ 787, 788 (N.D. III, 1982).

¹⁵<u>Id</u>. n.4.

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^{t7}In re Ampicillin, 202 USPQ at 143; See also <u>Burroughs</u>, 25 USPQ2d at 1282.

is no different than for any other client. The adopted that a pease for any state call related wignismood

3.1 Communications Involving U.S. Patent Agents, and Communications on Subject Matter Touching Base With the U.S.

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Communications involving U.S. patent agents acting as "attorneys", or communications involving U.S. or foreign patent agents on matters that touch base with the U.S., will be governed by the United States attorney-client privilege law.¹⁸

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3.1.1 Patent Agents in the Position of the "Attorney" a transfer into a property of the position of the position of the Attorney of the property of the position of the positi

Applicability of the attorney-client privilege to communications in which a patent agent acts as an "attorney", is split along two lines, as is indicated in many cases. 19

The first line follows the rule that "no communication from patent agents, whether American or foreign, are subject to an attorney-client privilege in the United States." The reasoning for such a rule is given by the court in Benckiser. 21

[t]he acknowledged purpose of the attorney-client privilege is to facilitate our advisary system of litigation by encouraging full disclosure to one who may someday represent his client in such litigation before the courts. While the lawyer's oath and code of ethics, which are also required of patent agents, provide an added reason for the client's trust, they are not the source of the privilege. In light of the general trend to limit such independent privileges to the essential requirements of their purpose, the attorney-client privilege has not been extended to non-attorney practitioners who engage in administrative representation short of actual litigation in the courts.²²

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^{is}Unlike the law of other countries, such as the United Kingdom, on this subject, the American rule is governed by case law rather than by statute. See for example, <u>In re Ampfeillin,</u> 202 USPO at 144.

¹⁹In re Ampicillin, 202 USPQ at 144; Chubb, 224 USPQ at 1011; Strvker, 24 USPQ2d at 1680.

²⁰Duplan, 184 USPQ at 788.

^{2t}Joh, A. Benckiser G.m.b.H. v. Hygrade Food Products, 149 USPQ 28 (D. N.J. 1966).

²²Benckiser, 149 USPQ at 30.

Accordingly, under the first line of cases, even though a patent agent is licensed to practice before the Patent Office, he/she is not licensed to practice before any state or federal court, and thereby does not fulfill the "member of the bar of a court" requirement as laid down in <u>United Shoe</u>.²³ this rule has, however not been adopted by all courts.²⁴

Other courts, such as the court in <u>In re Ampicillin</u> court, have adopted a second rule. The second rule is that "the attorney-client privilege must be available to communications of registered patents agents."

The reasoning for such a rule is given by the court in <u>In re Ampicillin</u> and the court in <u>In re Ampicill</u>

the denial of the attorney-client privilege to patent agent communications ... would result in significantly unequal treatment of patent agents and patent attorneys. Congress, in creating the Patent Office, has expressly permitted both patent attorneys and patent agents to practice before that office. The registered patent agent is required to have full and working knowledge of the law of patents and is even regulated by the same standards, including the Code of Professional Responsibility, as are applied to attorneys in all courts. Thus, in appearance and in fact, the registered patent agent stands on the same footing as an attorney in proceedings before the Patent Office. Therefore, under the congressional scheme, a client may freely choose between a patent attorney and a patent agent for representation in those proceedings. That freedom of selection, protected by the Supreme Court in Sperry, however, be substantially impaired if as basic a protection as the attorney-client privilege were afforded to communications involving patent attorneys but not to those involving patent agents. As a result, in order not to frustrate the congressional scheme, the attorney-client privilege must be available to communications of registered patent agents. ²⁶

The availability of the attorney-client privilege to patent agents under the second rule is restricted to those patent agents that are registered with the Patent Office.

²³See for example: Joh. A Benckiser G.m.b. H. v. Hygrade Food Products, 149 USPQ 28 (D. N.J. 1966). <u>Duplan Corp. v. Deering Milliken</u>, Inc., 184 USPQ 775 (D. S.C. 1974), <u>Status Time Corp. v. Sharp Electronics Corp.</u>, 217 USPQ 438 (S.D. N.Y. 1982), <u>Burroughs Welcome Co. v. Barr Laboratories</u>, Inc., 25 USPQ2d 1274 (E.D. N.C. 1992), <u>Detection Systems</u>, Inc. v. <u>Pittway Corp.</u>, 220 USPQ 716 (W.D. N.Y. 1982), <u>Rayette-Faberge</u>, Inc. v. <u>John Oster Manufacturing Co.</u>, 163 USPQ 373 (E.D. Wis, 1969), <u>United States v. United Shoe Machinery Corp.</u>, 85 USPQ 4 (D. Mass, 1950).

²⁴See for example Willemijn, 13 USPQ2d at 1014, n.25.

²⁵In re Ampicillin, 202 USPQ at 146. This rule was already present in Vernitron Medical Products. Inc. v. Baxter Laboratories, Inc. 186 USPQ 324, 325 (D. N.J. 1975).

²⁶In re Ampicillin, 202 USPQ at 145-146.

The court in In re Ampicillin acknowledged that there undoubtedly "are patent agents who meet all the registration requirements, but have not actually registered." Nevertheless, it found it "necessary to limit the holding to these [patent] agents who have registered." That limitation seems to result from the balance struck between two principles: limiting the scope of the privilege on the one hand so as to encourage discovery, and the congressional intent to have registered patent agents and attorneys treated equally on the other hand. A second reason for the registered patent agents limitation is that it will ensure that patent agents will be subject to professional and ethical standards set by the Patent Office. Furthermore, the court believed that that limitation set forth "a clearly defined test so that all parties will know beforehand whether the privilege is available."

The Ampicillin rule has been followed by some courts.³² According to some, the Ampicillin rule is the prevailing view today.³³ However, several courts do follow the Benckiser rule. In addition, some courts have just mentioned the split in the case law, and have side stepped the issue, sometimes explicitly stating that they expressed no opinion as to what is the right view or rule.³⁴ The choice of rule could, for example, be avoided if the patent agent could be qualified as a "subordinate of a member of the bar of a court." Patent agents in this situation work at the direction of, and under the supervision of the attorney, ³⁵ and are called agents or subordinates of the

³⁴Mendenhall, 217 USPQ at 788 n.4; Chubb, 224 USPQ at 1011.

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¹⁵Hercules, 196 USPQ at 408; See also Congoleum Industries, Inc. v. G.A.F. Corporation, 164 USPQ 376 (E.D. Pa. 1969).

attorney. Both inside patent agents³⁶, i.e., those patent agents working in the patent department of a corporation, as well as outside patent agents³⁷, i.e., those patent agents working on an independent basis, could be in this position. Hence, when a patent agent, even an outside patent agents, is acting as an agent of an attorney, communications with those patent agents can be protected by the attorney-client privilege on the basis that they are agents of the attorney.³⁸

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3.1.2 Patent Agents Acting as the "Client" (i.e. shown to you had small life of root at more life.

The applicability of the attorney-client privilege to communications involving patent agents in the role of the "client" is no different than for communications involving any other client. Some analysis will be directed, however, to patent agents in this role, since it illustrates the way courts have dealt with the issue of attorney-client privilege in the context of patent agents.

When discussing patent agents acting as the "client", that discussion should be divided between inside, and outside patent agents are a second and agents agents agents agents agents agents agents agents agents.

Inside patent agents are employees of the corporation, and may therefore be part of the "corporate client". The exact requirements and specifications with respect to the corporate employees covered by this term were laid down by the Court in <u>Upjohn</u>. For corporate employees to be part of the corporate client with respect certain communications, "[t]he communications [must] concern matters within the scope of employees' corporate duties, and the employees themselves [must be] sufficiently aware that they [are] being questioned in order that the corporation can obtain legal advice."

Outside patent agents normally handle patent matters on an independent basis, and are

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³⁶See for example Hercules, 196 USPQ at 408.

³⁷See for example <u>Willemiin</u>, 13 USPQ2d at 1013.

³⁸ Willemijn, 13 USPQ2d at 1013.

³⁹Upjohn Co. v. United States, 449 U.S. 383 (1981)

²⁹⁸⁰ kw. autograpi (1760-2 pol scipajej modežno 200 est. 200 a (1920-82) gajasej. "<mark>id.</mark> at 394.

typically not employees of the corporation. The court in Foseco, however, extended the attorney-client privilege to communications between an outside patent agent and an attorney with the use of a "constructive employee" theory. According to this theory, the communications between a British patent agent, that was acting on behalf of a British corporation, and a U.S. patent counsel were protected by attorney-client privilege, since "these communications [were] in essence communications between the client and the client's attorney. The Foseco court found that "[t]he British patent agent acted at the direction and control of the [British corporation]. The court in Chubb, however, rejected this reasoning and stated that "[outside] patent agents are not employees of the corporation. Typically, [an outside] patent agent is akin to an independent contractor, as opposed to an employee. Though the Chubb court held that the patent agent at issue was not an employee, the wording seems to leave some room for the situation in which the outside patent agent is not the "typical" outside patent agent.

3.2 Foreign Patent Agents Involved in Communications Not Touching Base With the U.S.

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This section will focus on communications involving foreign patent agents on subject matter not touching base with the U.S. Many of those communications involve aid in the prosecution of patent applications before a foreign patent office. In addition to a client and a foreign patent agent, an attorney, for example, the attorney that handled the case in the U.S., could be involved in the communication. This involvement of the attorney could either be on the side of the client or on the

however (because of knowledge of the foreign law), the communications between United States in (589) oid Q.A.) 751 972U-812, and snilaid y bil lanoitement coses in (589) oid Q.A.) 751 972U-812, and snilaid y bil lanoitement is in fact the situation mesented by the present case, each in fraing by his own country as a subject of the privilege. Hence, the posture is no different from what would obtain if co-counted in the United States were to correspond other

(2) If the patent egent is also ongaged in the subsequive lawyering process

⁴⁴Chubb, 224 USPQ at 1011.

⁴⁵The <u>Chubb</u> court found that they had "no facts (other than plaintiff's label of him) from which to conclude that Mr. Coles was otherwise than the typical [outside] patent agent." <u>Chubb</u>, 224 USPQ at 1011.

⁴⁶Communications involving foreign patent agents on subject matter which touches base with the U.S. are governed by the law as outlined in Section 3.1.

side of the foreign patent agent. The foreign patent agent typically has the role of the "attorney" to say The court in Stryker, set out the way courts have "grappled with the issue" of the attorney—client privilege in the above mentioned situations. The first rule mentioned by the Stryker court was that y learness transported to the bas source of a large transported to the large transported transported transported to the large transported transported transported transported transported transported transported trans

iff the communication is actually between the client and the foreign patent agent, and the attorney merely serves as a conduit for the information, the communication is not privileged unless under foreign law communications between patent agents and clients are privileged. Similarly, if the communication is actually between the attorney and the foreign patent office, and the foreign patent agent merely serves as a conduit, the communication is not privileged unless direct communication between the attorney and the foreign patent office is confidential. 48

The exceptions to this rule, though given in <u>Stryker</u>, are best described by the language of the court in the case that laid down this first rule, the <u>Mendenhall</u> court. This court stated that:

All the analysis shifts dramatically if the communication between lawyer and foreign agent is "substantive" - if it is not simply meant to be passed along to the foreign patent office as part of the client's application. In that event there are two possibilities:

- 1) If the foreign patent agent is primarily, a functionary, with the real to no more some lawyering being done by the United States lawyer, the communication is like that make most a lawyer and any non-lawyer who serves under the lawyer's supervisional to therefore makes no difference whether the patent agent himself is generally covered by a privilege, any more than is required of an investigator under parallel of no make increasing a distribution of the lawyer's supervisional to the patent agent himself is generally covered by a privilege, any more than is required of an investigator under parallel of no make increasing a distribution of the lawyer's supervisional to the lawyer of the lawyer's supervisional to the lawyer of the lawyer's supervisional to the lawyer of the la
 - (2) If the patent agent is also engaged in the substantive lawyering process however (because of knowledge of the foreign law), the communications between United States lawyer and foreign patent agent are between two professionals, if that is in fact the situation presented by the present case, each is treated by his own country as a subject of the privilege. Hence, the posture is no different from what would obtain if co-counsel in the United States were to correspond with each other

⁴⁷<u>Chubb, 224 USPQ at 1011.</u> The light this wheel series of med when the four no strong traded agicael scivloval shous distributed.

48 Stryker, 24 USPQ2d at 1680.

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The Mendenhall⁵⁰ rule was clearly written for situations involving correspondence on matters not touching base with the U.S. According to the court in <u>In re Ampicillin</u>, in such situations "the United States has no such strong interest,...so that deference will be given to the [foreign] rule." The shift analysis in the case of "substantive" communications, mentioned by the <u>Mendenhall</u> court seems to involve, at least in part, a switch to the U.S. attorney-client privilege rule.

The possibility of the foreign patent agent being treated as a co-counsel of the U.S. attorney was, however, not found in the above analysis under Section 3.1.1 of the cases in which the U.S. attorney-client privilege rule was held applicable. This could be a consequence of the fact that to be treated as a co-counselor, the patent agent should be a subject of the privilege in his own country, an issue that is still questionable in the U.S. (as was outlined in Section 3.1.1).

Most courts, however, have taken an approach which differs from that taken by the Mendenhall court in situations involving communications from or to foreign patent agents on subject matter not touching base with the U.S. For example, the court in Willemin 2 used Mendenhall rule for communications touching base with the U.S., 3 but held that for communications involving a foreign patent agent on matters not touching base with the U.S. "comity require[d] that they be given the same attorney-client privilege that they would be given abroad." Under this rule, "[i]f the communication does not 'touch base' with the United States, a court will look to the law of the foreign jurisdiction to determine whether a privilege would protect that communication in the foreign

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^{**}Mendenhall, 217 USPQ AT 789.

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country."⁵⁵ The relevant foreign law, i.e., the law a court would look at in these situations, is the law of the country to which the patent activities relate. ⁵⁶

At least one court that followed this second rule has done so involuntarily. The Stryker court, after having recited the two different rules discussed above, found itself "constrained under the relevant case law to determine whether the communication would be privileged under the relevant foreign law," since the communication did not touch base with the U.S. In a footnote, however, the Stryker court expressed its own view, and stated that "U.S. law pertaining to the attorney-client privilege should apply to the instant case even though the communications between the domestic patent attorney and the foreign patent agent did not "touch base" with the United States." By applying the American rule, the communication would be privileged on the basis that the foreign patent agent was acting as an agent of the U.S. attorney. This approach was already mentioned in the Mendenhall case.

3.2.1 Specific Examples - Japanese Patent Agents

U.S. courts have found that the law of several countries, among them the U.K. ⁵⁹, Sweden ⁶⁰, and Canada ⁶³, acknowledge the existence of attorney-client privilege with reverse to the communications involving patent agents.

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⁵⁷Stryker, 24 USPQ2d at 1681.

⁵⁸<u>Iđ.</u> n.4.

⁵⁹ Detection Systems, 220 USPQ at 718; Mendenhall, 217, USPQ at 788, as beams and appropriate appropriate and the control of t

⁶⁰Willemijn Houdstermaatschappij BV v. Apollo Computer, 13 USPQ2d 1001 at 1053 (D. Del 1989).

^{61&}lt;u>Id</u>.

Baxter Travenol Laboratories, Inv. v. Abbott Laboratories, 1987 U.S. Dist. LEXIS 10300 (N.D. III. June 17, 1987).

⁶³ Mendenhall

In contrast, however, a series of recent cases⁶⁴ have held that U.S. attorney-client privilege does not apply to communications between a Japanese patent agent and his client. Although Article 281 of the Japanese Code of Civil Procedure⁶⁵ provides that witnesses may refuse to testify as to facts which he obtained in the exercise of professional duties as a patent agent, "nothing in the statute extends to the patent agent's client or to documents prepared in connection with the patent agent's advice."

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3.3 of Conclusion in reserve one could who what will be received to be be black and addition delicer, show

The case law is split on the issue of whether a patent agent can be considered an attorney for the application of the attorney client-privilege in communications involving U.S. patent agents or on subject matter touching base with the U.S. In fact, there are two lines of cases. The first line holds that patent agents are not attorneys for the application of the attorney-client privilege, while the second line holds that the attorney-client privilege could apply if the patent agent is registered with the Patent Office. There is, however, agreement in the case law that both inside and outside patent agents can be considered, when working at the direction of or under the supervision of an attorney, a subordinate of an attorney. In those cases, communications involving those patent agents can be protected under the attorney-client privilege.

For inside patent agents who act as the client, there is general agreement that they can be part of the "corporate client". While outside patent agents can be subordinates of an attorney in appropriate circumstances, whether they can be considered employees of the corporation for the attorney-client privilege is less clear. At least one case holds that outside patent agents can be

⁶⁶Alpex

"Order Cara Dary in 1911"

⁶⁴Alpex Computer v. Nintendo Co. Ltd. (S.D. N.Y. 1992) 1992 U.S. Dist. LEXIS 3129; Baver AG and Miles. Inc. v. Barr Laboratories, 33 USPQ2d 1655, (S.D. N.Y. 1994); Santrade, Ltd. and Sandvik Special Metals Corporation v. General Electric Corp., 27 USPQ2d 1446 (E.D. N.Car. 1993)

^{65 &}quot;Article 281 (Right to Refuse to Testify). A witness may refuse to testify in the following cases: ... (2) In case a ... patent attorney ... is questioned regarding the facts which came to his knowledge in the course of performance of his duties and which should be kept secret".

considered employees of the corporation, while another case holds that the typical outside patent agent cannot be in that position. "While this distinction may [in some cases] appear formalistic, it is a significant one for purposes of determining whether the privilege applies to the communications."

governed by two different rules. The first rule applies the law of the country to which the patent activities relate to determine whether a privilege would apply to those communications. The second rule, which can be considered a refinement of the first rule, takes into account the role played by the foreign patent agent. This second rule introduces a U.S. attorney and discusses the situation in which a foreign patent agent is either an agent or a co-counselor of the U.S. attorney. For this last role, i.e., the foreign patent agent as a co-counselor, the foreign patent agent has to be treated as a subject of the attorney-client privilege in the foreign country. It is a separation for our annual based and above all above all above all annual countries of the interest of the patent agent has a co-country of the privilege in the foreign country. It is a separation for our annual based and hope adial above all annual countries of the privilege and the privilege in the foreign country. It is a separation for the first rule, and the patent agent has a co-country and annual country annua

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Title:

Trademarks on the Internet

Graneater (

Date:

October, 1996 (27th General Meeting in Hiroshima)

Notionborial

Source:

1 PIPA

2 Japan

Use and Infringement of a Trademark

3 Committee #1

(2) Responsibility of a Provider

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Authors:

Ueda Manato, Mitsubishi Electric Corporation

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Mizuno Emi, Sapporo Breweries Ltd. Thomas (in the first of the same (in the first of the same (in the first of the same (in the first of the first of the same (in the first of the first of the first of the same (in the first of the first o

Nishimura Akemi, Tosoh Corporations and as appeared (2)

Key words:

Internet, Trademark infringement, Use of trademarks,

Territoriality, Providers, Domain names one of the manual (1)

(2) Problems Involved in the Registration of Deposits Names

Statutory provisions: Trademark Law, Article 2, Articles 36, Civil Law, Article 719;
Rules for the Application of Laws, Article 11, Paris Convention,
Article 6; US Trademark Law, Article 1118; Unfair Competition

Prevention Law, Federal Dilution Act (USA) (0) and (1)

Abstract:

"The use of Internet services involve many potential problems because of a lack of established rules authorized by official organizations, while the Internet has a high degree of freedom in use. This report reviews the problems and noteworthy points that occur when companies use trademarks on the Internet, by focusing on trademark territoriality in the Internet's international arena. The status of the confusion between domain names and trademark rights is also covered, with reference to cases currently under dispute, and those that have been resolved, in the US".

Contents Prademarks on the ference Eleke: complement to the property to accomplish the Colonial medical in Introduction $A \subseteq \{0\}$ regressión. 2. Use and Infringement of a Trademark marted S (1)Use of Trademarks 3 - Normalizado #1 (2) Responsibility of a Provider tieda Magado, Missibishi Modash Ogragosian Territorial Issue and an amount of the second state of the second (1) Infringement of Trademarks Abroad would have a new to (2) Measures to be Taken by Enterprises grant A and propagate 4. Domain Names and anathermitted avarages of decreased ्रक्षात्रकात्रका ४०३वे (1) Domain Names was a support problem in virtuino menti (2) Problems Involved in the Registration of Domain Names 10 Tolog (3) Settling the Situation of about American Francisco of Employer mailtoneys (4) Domain Name and Trademark attentions A cofe and satural holdboun(5) Necessity for Drastic Measures amount 20 to biblish (6) What Companies Should Do for about the stroken world

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The spread of personal computers is bringing about a rapid increase in the use of the Internet. Japanese enterprises are studying the merits and demerits of the Internet from various angles to explore its use as a business tool. The Internet has,

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however, only a short history in Japan. It's legal aspects, including those relating to intellectual property rights, are, among others, yet to be studied.

Various legal problems have already begun to arise in the United States where it have has a longer history. This paper is intended to point out problems which a company may face upon commercial use of the Internet.

2.Use and Infringement of a Trademark

(1)Use of Trademarks

constructed the symbols appearing on the display. The symbols appearing on the display.

(2) Responsibility of a Provider

Access to a desired server is gained by inputting the corresponding URE (Uniform Resource Locator) (e.g.: http://www.pipa.co.jp). The "pipa.co.jp" (domain name) in the URE is a symbol for distinguishing the server to which access is desired.

what is a As domain name is an expression which symbolizes the supplier of information, approved a its use may constitute infringement if there is a trademark right which covers the third of information given on the site. The appropriate was presented as a content of information given on the site.

If the site is intended for the furnishing of services, or the sale of goods, it is likely as strategy that its name may be concluded as trademark use.

Sentence, phrase, decorative figure, sound, etc. in the site > electric discording sound; etc. in the site > elect

Symbol attached to goods themselves>

The symbol attached to goods themselves have a function of indicating the source of the goods. Its use may in the majority of the cases constitute the infringement of trademark-right()2721 (2001) quality 8220 margin vibral analogous vibral analogous (1000) by 2001 (1000) quality 83700 (1000) A11(4214) vibral and agod

It is not easy to conclude that the display of a trademark, or other symbol on the Internet amounts to its use. However, the display may be considered as the use of the trademark if it is employed for the sale of goods, or the furnishing of services. In Japan, an advertisement by television is interpreted as being an "advertisement" under the provisions of paragraph 7 of Section 3 of Article 2 of the Trademark Law, and a similar interpretation may apply to any display on the Internet.

Concerning letters or figures which are not attached to the goods themselves, but employed in an image display for advertising the goods, it is important to check whether they are used in a way serving to indicate the source of the goods. You would also have to be aware of words which are considered as being a common name within the country. There are chances that the word is a registered as trademark in other countries.

(2) Responsibility of a Provider

computer to the Internet, sometimes managing bulletin board system (BBS). In such a case, we wonder if the provider is legally responsible for any infringement of a trademark that may occur on the network.

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It is usually impossible for the provider to make a detailed check of the contents of information displayed by the member. However in the United States, there are some judicial precedents concerning copyright, which approved responsibility of the provider under limited conditions for an infringement by a third party! In Japan, the Civil Law has provisions covering a joint tort, and it is, therefore, likely that, even if a provider himself may not infringe a trademark right, he may have to assume joint responsibility as a network operator. It may also be easier for the trademark owner to accuse the provider.

Under these circumstances, it will be necessary to examine the following points to specify the role of a provider. If the provider has been in a position to become aware of any infringing act, assist the infringing act, whether the provider has any right and ability to direct and supervise the infringer, if the provider receives economical benefit from the act, and so on.

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¹ Playboy Enterprises, Inc. v. Frena (839 F.Supp. 1361, 1378(N.D.Cal. 1995)). Sega Enters. v. MAPHIA (837 F.Supp. 679, (N.D.Cal. 1994))

[4] Does infringement exist in the United States? **austinational Territorial Iss** (b) the coser as described above, an infringement of the teatenment right is likely to

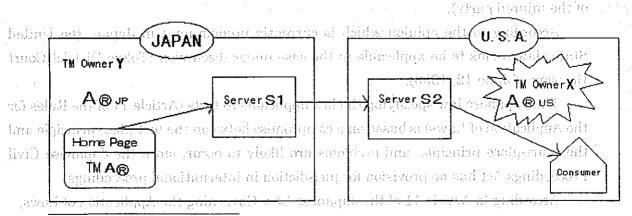
granted in each country and is effective only within that country, and it is, therefore, possible that there may exist many different owners of the right to the same trademark in the world. On the other hand, the Internet has no territorial boundary.

There is, therefore, likelihood that information may flow into countries with no trademark right, causing confusion with the goods or services supplied by a third party.

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• The United States company X is the owner of a United States trademark out too registration "A". The out and the states of a United States of a United States of the United States gains access.



Recently, a court decision has been made on "Playmen" Internet site in Italy, available for U.S. computer users. (Playboy Enterprises Inc. v. Chuckleberry Publishing Inc., DC SNY, 79 CIV 3525(SAS), June 19, 1996)
See "BNA's PATENT, TRADEMARK & COPYRIGHT JOURNAL" Bureau of National Affairs, Inc. (vol. 52, No. 1286)

[1] Does infringement exist in the United States? States in the United States?

In the case as described above, an infringement of the trademark right is likely to exist in the United States, since the display of the trademark maybe considered as its use, the trademark A is not well-known, and the trademark right is governed by the territorial principle. However, in the actual case, a discussion as to whether the site's flow to the U.S. was apt to the Japanese company's transmission, or to the U.S. users access, will be inevitable.

[2] The applicable law and court jurisdiction

While the infringement has occurred in the United States, the infringer has its address in Japan. Where and with which country's law can the owner X of the United States trademark right take action?

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According to the private international law, the most adequate law that is applicable to the matter is chosen. This is done by determining, (1) the nature of the matter and (2) its connecting points. To determine the nature of the matter, the matter in question is broken down into the individual legal issues, and studied. In this case, the matter to be decided is whether the appearance of the trademark on the display in the United States could be considered as the advertisement of the goods, proposal of a contract for the sale of the goods, etc.

The connecting points are established by specifying the elements for finding out the place with the closest relation to the issue (e.g., the country where the trademark right was granted, the country and address of the injuring party, the place where the illegal act was done, the place where the damage was produced, and the country and address of the injured party).

According to the opinion which is currently predominant in Japan, the United States law seems to be applicable in the case under discussion (Tokyo District Court Decision of June 12, 1953).

The Japanese law specifying the law applicable to torts (Article 11 of the Rules for the Application of Laws) is based on a compromise between the tort-place principle and the court-place principle, and problems are likely to occur, since the Japanese Civil Proceedings Act has no provision for jurisdiction in international proceedings.

According to Article 11 of the Japanese Law Governing the Application of Laws,

- The existence of a claim brought about by a tort and its effect shall be interpreted in accordance with the law of the place where the cause thereof shall have occurred. (Section 1: the tort-place principle)
- The provisions of Section 1 shall not apply to any act that shall have asset to

We think that the Japanese company can reduce the substantial illegality of its act if it defends itself by showing its lawful use of the trademark clearly by following ways.

- Placing a statement that the trademark is registered in Japan, and by clarifying that it has no intention of infringing any right in other countries. Or if it says in its site that it will not sell goods in specific country (i.e. the United States).
- If the site is prepared in Japanese, it will be an objective support for the presumption that the Japanese company has no intention of infringing any trademark right in the United States. It will also be unlikely to arouse any confusion between the two marks. (Except when it is a site intended for Japanese people in the United States).

was apt to the Japanese company's transmission, or to the U.S. users access, will be inevitable.

Anyhow, everybody is always likely to infringe a trademark right in any country where he has no trademark registered, insofar as trademark registrations are based on the territorial principle. People handling trademark business in each enterprise are required to study possible measure against such infringement.

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gaile (2) Measures to be Taken by Enterprises as a sure of a silled lines with

the risks which may arise from the use of a trademark in the Internet:

In the first place, it is advisable to pick up countries for business purposes and secure the right to use trademarks at least in those countries. It is also advisable to secure a trademark right in each principal country, or in each country having a high spread of personal computers. However, these measures have the drawback of incurring a large amount of costs.

In the second place, it is advisable for each enterprise to name in its site the countries where it intends to do business, while stating clearly that it does not intend to do business in any other country. In this connection, there will be no alternative but to give up doing business in any country where it is difficult to obtain trademark registration.

In the third place, it is advisable for each enterprise to show clearly in its site the country, or countries where it has a registered trademark, or the right to use a registered trademark, and to declare its lawful use of the trademark, though a difficult problem may still remain about the measure to be taken for any country where no

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Although all of these measures may be taken to show the lawful use of a trademark, none of them is a drastically effective solution which enables the safe use an of a trademark through the Internet, since it is impossible to avoid completely the minfringement of a trademark right in a foreign country.

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ash a4. Domain Names is at there is a seasonal to be a gone at the odd it -

In the United States, a large number of cases involving domain names are constalled in dispute³, and are drawing attention to the necessity for some measures including the preparation of new rules, but in Japan, no such case is known as yet.

Accordingly, the following discussion is directed mainly to the cases in the United States for analyzing the present situation and predicting the possible tendency in the future.

beard (1) Domain Names and brother an absence the adelege the anchors on and ad enough

designating the site (or address) on the Internet. One who wants to access to a particular organization, relies mainly upon its domain name for assuming its activity.

More specifically, a domain name consists of its proper name, a code indicating the nature of the organization and its country code, as shown by an underline below.

Its use requires registration with an appropriate association.

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org = organization code * The country code is not shown.

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For list of the disputes, see "WHAT'S IN A NAME?" (Introduction to Domain Name Disputes) by J. Agmon, S. Halpern & D. Pauker (http://www.law.georgetown.edu/lc/internic/recent/rec1.html)

The registration and administration of the domain names are done separately from one region to another. Under the authorization of IANA (Internet Assigned Number Authority), in the United States, Inter NIC4, which is a subsidiary of Network Solutions Inc., is doing the job, and in Japan, JP NIC5 is doing the job. JP NIC is not directly connected with Inter NIC, and is working independently.

A user wishing for his own domain name applies for its registration with condition. InterNIC, JP NIC, etc. In response to the application, these associations investigate prior registrations and register if not priory registered. Though domain names must be registered applicants can choose and use any further file names as desired without having them registered applicants in the standard in the standard and all the standard and all the standards.

office (2) Problems Involved in the Registration of Domain Names was assumption

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In the United States, the number of applications for registration of domain names has shown a sharp increase with the increasing use of the Internet. The number of the registred domain names has been doubled in the first half of this year, and amounts to about 460,000 as of June, 1996. In Japan, however, the number of the registrations is only about 9,000 as of July, 1996, even though it is showing an explosive increase. This surprising difference in number is not only due to the difference between the two countries in the extent of spread of the Internet, but also appears to be due to the difference in system. In the United States, the companies or organizations have their own servers and therefore their own domain names. On the providers, and do not have their own domain names. In any such event, the name of the company, or organization will be the file name following the domain name, and need not be registered. Moreover, JP NIC makes it a rule to assign only one domain to a geach company.

and assign a particular domain name to the first applicant. As a result, conflicts often arise between domain names and trademarks or service marks. Although these problems have occurred mainly in the United States, it is apparent that Japan will

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Inter NIC (http://rs.internic.net)

⁶ InterNIC news, Registeration Services Performance Measures for June 1996 (http://rs.internic.net/nic-support/nicnews/stats.html)

The number of the assignment by JPNIC has doubled since Jan., 1996. (ftp://ftp.nic.ad.jp/pub/jpnic-pub/stat/Allocated_Domains)

violate also see an increase of disputes involving domain names with an increase in the use of interest and the registration of domain names.

derived The following is a summary of three principal points at issue as derived from the seases in dispute in the United States: and the best and t

11 Domain name registered with the intention of unfair competition

olagiba val-Kaplan Review vs. Princeton Review (dispute between competing companies) -

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Princeton Review Management Corporation had registered their domain name "kaplan com" made by using a part of the name of their competitor, Stanley H. Kaplan Educational Center. It sent information slandering Kaplan to anybody who had accessed to the site, considering the domain name as that of Kaplan. The two companies arrived at a compromise, and Kaplan Review acquired the right to use the

and the possible to register domain names with a malicious intent, and there are a subminumber of cases in which the users of domain names are in dispute with the owners of trademark or other rights. Well-known trademarks not registered as domain names are likely to be the objects of such malicious registration as domain names.

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explication promotes. This surjoining difference in demine to the low and and the

While Uzi Nissan had registered inssan, com earlier than Nissan, automobile with manufacturer, did, Nissan is afraid that Uzi Nissan may have intended to benefit from the name of Nissan Motor. Uzi Nissan having their name registered with the State Department of Justice asserts that they have been using the name Nissan since a of pilling time before Nissan started to use it. A page and the pilling of the land.

In the event that a single trademark is the subject of plural registrations in respect of dissimilar goods, only one of the companies is allowed to use the trademark as their domain name data that their domain name data the data the data their domain name data their domain name data the data t

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Hist maga:[3]: Registration of similar domain names is visiting because avaid a seed dea

- "micros0ft.com" vs "microsoft.com"-

A company named Zero Micro Software had *microsOft. com* (having the numeral 0 in the place of o in soft) registered as their domain name, and was demanded by Microsoft having a registered domain name *microsoft. com*, to discontinue its use.

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8 See "IPR" (Vol. 10 No.4, p. 185) NGB Corporation (Japanese text)

Domain names will be registered if it is not "identical" to the names already registered. Similarities are not concerned. Moreover, a user not accustomed to domain names is likely to get confused; since domain names with the same proper name are registered with different organization or country code.

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11 Action of NSI

In order to cope with the problem of confusion between a domain name and a trademark as discussed above, NSI revised the "Domain Dispute Resolution Policy Statement" (July, 1995) and published "Domain Name Dispute Policy Statement" (November, 1995). The new policy reconfirms that NSI is free from any responsibility concerning the disputes, and at the same time, provides chance for the owner of the registered trademark to suspend the use of the domain name until the juridical decision.

According to the new policy, the owner of a registered trademark which is "identical" to a domain name has the right to raise objection. However, a number of problems are pointed out; for example, only registered trademarks are effective for the objection (use under the common law is not considered), only "identical" trademarks can be used for objection (no possible confusion, as between kodak and codak, is taken into consideration), and there are no consideration paid to the standard of distinctiveness" which differs between countries (a trademark not registered in the U.S. as lacking distinctiveness, may be objected to by one having the same trademark registered in another country). 10

Concerning the assignment of domain names. NSI is obviously in a middle.

of the Despite their declaration of having no responsibility, there are number of cases where

violants is involved in lawsuits. While there are already stories of further revision of the

one Policy of there is no doubt that a drastic measure concerning the assigning system is

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⁹ Domain Name Dispute Policy Statement
(ftp://rs.internic.net/policy/internic/internic-domain-4.txt)

Furthermore, there are questions as to whether InterNIC have authority to reallocate property. See "Is the InterNIC's Dispute Policy Unconstitutional?" by Mikki Barry (http://wwww.mids.org/legal/dispute.html)

[&]quot;Domain Name Dispute Policy (Rev 02)" English to the Policy of the Polic

ybasola **(2).The USPTO Guideline** son ar li li havebelgar ng lira sampa ninggot

The new policy by NSI which puts weight on trademark registeration identical to acquidomain names highly increased the number of trademark application of domain names. In February, 1996, the USPTO published a guideline concerning the registration of domain name as a trademark. However, as you could tell from the fact that the specimen issue had been very carefully discussed, this does not immediately mean that the USPTO regards ordinary use of domain names (as a part of the URL) that as a trademark.

When filing a domain name as a trademark, it is important to carefully study the services for which a registered name will be used, to express them in adequate terms, which and to file the application in the appropriate classing which a red in the services?

conversion the disputes, and at the space time, provides chance list the overer of the

limbing [3] JPNIC: make almost, sell be see and brongers of Agreement for apring

JPNIC, which is in charge of assigning domain names which ends with the accountry code "jp", is of the standpoint that they assign domain names merely as a sign, and have not yet published any policy concerning domain name and trademark.

In Japan, the increasing use of the Internet is beginning to arouse strong interests in domain names. Demands for the abolition of "one domain per organization" system and the assignment of "brand" domains and "event" domain are becoming strong. As of August, 1996, JPNIC is gathering opinions in order to explore new domain structure.

A discussion between Trademark specialists and JPNIC would be inevitable before the about that the assignment of the accountry
.elbla(4) Domain:Name and Trademark, neocle for trademarks record

memorize, expected to serve merely as an address. However, the set of letters usually consists a word. While arguments are still pending as to whether a domain name should be considered as a trademark, a company can definitely not allow their trademark to be used as others domain name. Trademark Act, the Prevention of Unfair Competition Act, or the Federal Dilution Act (of the United States), depending

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JPNIC domain-talk(http://www.nic.ad.jp/jpnic/hottopics/domain-talk.txt)

USPTO "Registeration of Domain Names in the Trademark Office", "Classification of Computer Services and Associated Policy in the Trademark Office" (Feb. 12, 1996)
 For associated information, see Thomson & Thomson "ClienT & Times" (Aug. Oct, 1995 - "Internet Domain Names and the USPTO. An Interview" (http://www.thomson-thomson.com/netscape/docs/articles/217e_1c2.html)
 (http://www.thomson-thomson.com/netscape/docs/articles/216a_1c2.html)

on the case could be considered to be used on suspending the use of the domain name.

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court or are still pending. Thus the issue have not reached the conclusion as to whether domain name is a trademark.

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On January 11, 1996, The Federal Dilution Act took effect, and as of June, 1996, there are already cases demanding the suspension of use, and furthermore, court decisions relying upon the Act for suspending the use of the domain name 15. It can be expected that the Act will be commonly be applied for the protection of famous trademarks.

In April, 1996, a preliminary injunction was issued for the first time to suspend the use of a domain name confusingly similar to a federally registered trademark. However, under the Trademark Act, an infringement exists only when there is a confusion of the source of goods or services. Accordingly, if service or goods concerned in the site bearing the domain name, differ from those of the trademark registration, an infringement may not be likely to exist, as is the case between two trademarks.

It appears that in the United States, domain names are more likely to be considered as a trademark because of the precedent as to concerning "telephone mnemonics" as trademarks.

[2] Situation in Japan:

The Prevention of Unfair Competition Act will be effective when a famous trademark is used as a domain name. However, it is not clear as to whether a domain name could be considered as a trademark under the Trademark Law.

objection and amountail dates of the contract of the body of the contract of t

number is. However, the sign used for contacting a particular entity, as a telephone number is. However, the sign usually constitutes some word or other. It is easy to imagine a personnel jumping from site to site, to assume the source of information from the domain name. Accordingly, there are opinion that a domain name do function

⁽No.C96-130WD(W.D.Wash.Feb:9,1996)), For associated information, see "Famous Trademarks" by Jonathan Rosenor (http://www.cyberlaw.com/cylw0296.html) ex.2 / avon.com/case: See, "Antidilution Trademark Law Gets First Court Case" by Information Law Alert (http://www.infolawalert.com/stories/020996b.html)

See "Federal Judge Issues Landmark Ruling of Cyber Infringement" by Crosby, Heafey, Roach & May (http://www.chrm.com/anounce/Cyber.html)

For further information on tel.mnemonics & TMs, see "Trademarks along the Infobahn" by Dan. L. Burk (http://www.urich.edu/~jolt/vli1/burk.html)

as a trademark, especially when a service is provided on the site? The provided on the site?

On the other hand, it is also necessary to note that JPNIC now assigns only one domain name per organization, a part that differs from the practice of InterNIC. A domain name is a one and only address that an entity could have. As long as "brand" domains are not considered, it seems that the ordinary designation of the manufacturer or seller of goods, does not amount to the use of a trademark.

In either event, however, nobody obviously wants their trademark (esp. "Fanciful marks") to be used by others as their domain name. There have not been any disputes, nor have been any substantial argument heard about "Trademark / Domain Name" issue in Japan yet¹⁸. However, it can easily be imagined that the rapid grow of the domain name registration would bring about many disputes in the near future.

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There are many proposals given for overcoming the situation. Among the largest is to add additional information in the domain name (ex. Goods classification, territorial division etc.)¹⁹. This revision will enable more people to have the domain names which they desire. However, it can easily be imagined that an owner of a well-known trademark will not allow the mark to be included in others' domain name in whatever way. Although there are a great many problems to be solved before the present situation can be overcome, prompt measures are desired to be able to use a domain name under stable right. We look forward to the establishment of a worldwide rule.²⁰

minin (6): What Companies Should Dosvowoff Louisia migmobile an boss of Anamabag

For those who do not have a domain name, check the existing domain names and register your domain name immediately²¹. It is desirable to keep a regular watch on the similar domain names and the similar domain names.

An assigning organization exists in each area, independently assigning domain names by simply adding the two-letter country code. Therefore, it is extremely difficult

¹⁸ Several cases have been introduced. (Asahi Shinbun Weekly. "AERA" Aug. 5, 1996/p26)

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For further information on proposals concerning new system, see "Trademarks on the Internet" by David W. Maher (http://aldea.com/cix/maher.html)

²¹ Checking pre-assigned domain names is a sufficient of the winds of the sufficient
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Committee:

to keep control of domain names on a worldwide basis. However, there are worldwide famous trademark owners that have started registering their company names / trademarks as domain names, all around the world. Also recently, there are firms that provide domain name search / watching services²².

Internet will allow big chance on business. It is a matter of serious concern for any enterprise to be unable to use their own trademark as their domain name. Concerning domain names, the discussion have just begun. It is recommended to keep your eye on the further discussion, and as for now, to register your company name or brand name as a domain name, at least in InterNIC and JPNIC.

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5. Conclusion

While the Internet has a high degree of freedom in use, it bears variety of problems since there aren't any established rules authorized by official organization. The domain name issue or the trademark's territorial issue may be counted as one of the problems. Each enterprise would have to defend themselves by considering and taking the necessary measures.

However, the efforts which can be made by each individual enterprise have their own limit. Thus, we hope that in order to enable safe use of the trademarks in the ever-growing world of the Internet, a new worldwide policy be established under the direction of an international organization, as soon as possible.

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(6) Relevant laws: Petent Law and Copyright Law

· (7) Summary

As a recently been a rapid increase of the intersets. There has recently been a rapid increase of the Internet

It is recommended to make a TM search, especially before registering a com.domain -i.e. domains assigned by InterNic.

^{*} All URLs in the footnotes are of August, 1996.

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Internet, right of reproduction, right of transmission through wire, private use, license, work of a program, offer for sale, public knowledge, shrink-wrap, and adhesion contract.

- (6) Relevant laws: Patent Law and Copyright Law
- (7) Summary:

As a result of the rapid spread of the Internets, there has recently been a rapid increase of the Internet population in Japan, too, including an increasing number of people buying personal computers to use Internet services

ACC Supply Some whereof ode of science #A

With an spread of the Internet at home, a wide variety of digitalized goods and works have come to be offered for sale through the Internet ... This new business can be expected to keep growing, since it enables the consumers to get a wide variety of things whenever they want/d while other suppliers can obtain addarge number of potential customers. Under these circumstances ohowever, it disafeared that now sufficient oprotection of intellectual property may be obtained under the existing laws which did not lanticipates the presents situation when a they bewere enacted for Italian sobject of this paper to examine a number of problems sarising from the use of the Internet and provide a infirst step for any further argument wingsthe matterian This paper will not only deal with the matter of copyrighted work on the Internet which is already under active discussion; but will also wrefer to matters on which discussion has just begun, such as a patent for a software products distributed through the Internet and a system patentiutilizing the Internets sit to iffer a as assuborg to scientific and commercial use.

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1. Preface (Outline of an Internet) assume as doly asset to veriety of digitalities goods and works bave come to be assuithe rapididevelopment of networks sise one of withe characteristic aspects of modern society be There care as variety vof networks including a small network formed by connecting personal computers or work stations within a single oplace and forwark a (LAN sti) in networks and formed aby connecting such networks (WAN *ii); commercial networks for personal computer communications (*iiii), canda networks formed by scientific organizations; such as universities These networks have basically been managed independently of one another despite their difference in scale, and the interconnection of networks has been only in limited cases In Mowadays, however, there exist a very wide range of interconnections of networks as a result of the development of the Internet; as a network providing connection between networks. The Internet was born as a military network in the United States in the 1960's abut has made a rapid progress as a result of the application of mits technology to scientific and commercial use.

A wide variety of kinds of information are circulated in large quantities through the Internet every day. An increase of companies providing services for connection with an ordinary telephone circuit at a low acost has facilitated transmission of information not only by enterprises, but also by individuals The Internet is becoming a site for any substantial commercial distribution comparable to a commercial transaction for stangible goods owing to a rapid improvement in the technique for the coding of information to maintain the security of an electronic transaction on the network. For example, it is no longer uncommon for an individual to copy (or download) in his personal computer at home an application software recorded (or uploaded) in the host computer (or server) of a software maker connected to the Internet, and pay for it with a credit card.

with the progress in the digitalization of information and the formation of borderless networks, however, an infringement for the right of the owner of information has become more likely to occur, apparently because there does not substantially exist any regulation for controlling the Internet. In this connection, measures have already been studied in the United States as reported in the White Paper (*iv), or in the EU as reported in the Green Paper (*v), and it is obviously necessary to study in Japan, too, the possibility of protection of rights under the existing laws concerning intellectual property.

2. Transmission and Receiving of a Work on the Internet(s)

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photograph, by a stained, stoll

(1) Relevant Articles of the Japanese Copyright Law

nobasIn as Anticless 2 by of a sthe SJapanese as Copyright (súllaw) "reproduction" is defined as "making a tangible copy by printing, photographing, copying, sound recording on seany other method site. The storage (d) of information in the internal storage unit of a computer by the execution of a program is interpreted as not being reproduction of istate and momentary and stransient wone. Article 22:06 the same Law Malso defines transmission through wire" as "transmission of electric communication through wire which is intended for direct reception by the public. According to this definition, the act of sending a diterary, scientific, artistic or musical work not to the public, but to a small number of specific people can be interpreted as not being "transmission through wire" According to Article 30 of the same Law, it is allowable to reproduced as computer oprogram wife its reproduction his intended for private use, or for use at home, for to a likewise limited extent", and according to Article 47 bis; the owner of a work of a program is "allowed to reproduce or translate the work to the extent considered necessary

for his own use of the work in an electronic computer. These provisions which allow reproduction for private use, or by the owner of a reproduction of a work of a program restrict the rights of the relevant copyright owner.

(2). The internets and satinterpretations of it the Japanese Copyright (Laws) she imposed as absent the interpretations of an include

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ests perficulation to a econolisment has been viliable described and

We would like to consider several specific examples of acts of sending or receiving a work through the Internet and state our interpretation of each facts under the Copyright Law.

(a) Act of reading and adigitalizing a work, such as a photograph, by a scanner, etc.:

We think that the act amounts to reproduction, and infringes a copyright if it is done without the permission of its owner.

ho(b) Action uploading as work in the bulletin board of sample personal computer communication network: eds as actions as

the execution of a program is interpreted as not bring

printagg packographing, endying, sound in odomes

permanent storage in a server, and infringes a copyright if it is done without permission; and constitute as a copyright of

we also think that the storage of the work in the server amounts to transmission through wire, since bit enables any of many and unspecified persons to gain access to the work, and that it infringes a copyright if it is done without permission.

displayed on a screen without downloading it in abshard disk, or the like:

According to Article 30 of the Arms San, in is allowable to

one Westhink that fit is an temporary storage and does not amount to reproduction the second of the second second to

- We think that it merely gives conformations on a the location of the paper in the network, and does not amount to its reproduction.
- We do not think that any such act done for the private use of the work infringes its copyright as it does not

The definition of the term "reproduction" should be

use of the work infringes its copyright as it does not require any permission of the copyright owner.

(3) Consideration of New Framework for the Internet and Copyright and the second of the constant blows of

was right, which is not allowed suder the Copyright Law.

Although the foregoing interpretation may be correct under the existing Copyright Law, it has been pointed out that the provisions of the existing Copyright Law are not comprehensive enough to cope with any problem that may arise in each individual case from the use of Internet services and many people are exploring a new framework for the protection of copyright in an environment characterized by computer networks. As a matter of fact, it is not necessarily clear whether the right of reproduction, or transmission through wire under he Copyright Law is applicable to an act of storing a program in the magnetic disk device of a computer, or an act of sending a digital work through the Internet.

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The Japanese Agency for Cultural Affairs published a "Report on the Results of Studies by the Working Group of the Subcommittee on Multimedia of the Council on Copyright" in February, 1995 as an attempt to explore such a framework. This report includes some "possible solutions" in connection with the economical rights of an author, as stated below. (Note that these are "possible" solutions, and are not the conclusions of the Council. The report also

says that there would be many other solutions as well as these possible solutions.)

location of the paper in the nativery, and dwe not amount

to its reproduction

(a) Right of reproduction:

The definition of the term "reproduction" should be amended to clearly include any temporary storage in an electronic form. (Note: The report pointed out that the above amendment of definition of "reproduction" would drastically change the current concept and would substantially form wa use right", which is not allowed under the Copyright Law. It also pointed out that restriction of copyright in order to avoid interference with normal use of a work would eventually water down the amendment of the Copyright Law. The report says that careful consideration is necessary on this issue. Further, with respect to the development of use of a work without reproducing it continuously, the report refers to the possibility of mexpanding broadcast/ transmission right and newly forming displaying right. These solutions do not need expansion of the definition of reproduce and may be more appropriate, the report says.)

a (b) Right on broadcast and transmission of a certification

The definition of "broadcast" should be changed. Upper concept of transmission which cover both wireless transmission transmission through wire should be and established and transmission for the purpose simultaneous reception should be "broadcast" and broadcast right in Article 23 should be changed to transmission right/9:0 politica ont ye selbork to stipsed son so shought or regardless of wireless or through wire and simultaneous or non-simultaneous reception, an electric communication for the purpose of direct reception by the public, should be defined as "transmission" and broadcast right and transmission through wire right in Article 23 should be changedaton "transmission right"; and and and and our bas

necessarily clear whether the right of reproduction, or

or the definition of "transmission through wire" should be changed soluthate it also covers transmission to the public indthe same of a cility. or epichs as sebulla: 2001 lands tre2 Copyriging Act should be so amended as to state clearly that o (c) Right on an actoof "displaying": side to be being the set s with respect to the exhibition right of aswork of tant and sphotographssin varticles 25% othersconditions sofor by original work "sand: "being "unpublished (for aphotograph) " should bewdeleted; goo a to relication and readsparate of year or apart from the right of exhibition, the "right of displaying or "screening" should be given to the author of, as a rule, any and all work (and at least any artistic, photographic or figurative (work) (Stolenable shim to perform the visual presentations of aspicture, representing the work to a the equilibrium by statutechnical to device (including sethe reproduction to fyat recorded work and the showing to face transmitted work concassreen). case vano na salat salat salat salat reproduction which has until now been interpreted based on yx(d):Reproduction for private wise past s to noital contact add no and Thee provisions for mestricting copyright with respect to the right of meproduction for private use should not applyistoscany cacts of reproducing sad reproduced works by ma digitals system; sl dagingdo to solds inomused add eveldos or the provisions for restricting copyright with respect to thewrights of reproduction for private suse should not apply to any act of reproducing a work which has protection for impermissible acopying and rare reproduced type a stechnical device which decodes or avoids those sprotection for a substack or the provisions for restricting copyright with respect to the right of reproduction of or private luse should not happly tolany actiof producing a work of program and data base (or onlydprogram). as drowden biactronic network as . dpwordt pnitalionic protection.

It appears that the solutions as cited above may be desirable for protecting the rights of a copyright owner in the Internet age.

+UnitedaStates+ dappret noissimensed he coisiniled add to office The United States, the White Paper published in September, 1995 includes an advice to the effect that the Copyright Act should be so amended as to state clearly that the definition of "distribution" includes transmission() so that it it is may be clear withat han act of odistributing a reproduction of a work to the publicaby transmission is the subject of an exclusive right. " whis is certainly another way to strengthen the protection of a copyright-owner. Lucda or apert from the right of exhibition, the "right of #Necessity of Harmonization # on a prince to prince the prince to the state of the and a light section reproduce wall digitalized work sin la network and stransmitteit through swire and the restriction thereof: are, showever, enthe matters which will seriously affects boths an owner of saircopyright wand adduser fof a copyrighted work to the issue highly risky thing to confor example, take an easy step of expanding the right of reproduction which has until now been interpreted based on the circulation of a tangible work of Ita will be necessary to make a new law while maintaining a good balance between the protection of wrights of a copyright owner and the promotion of use of his work. It is also necessary to achieve the harmonization of copyright laws of allithe countries concerned, assince the anthreast need the concerned to the circulation of a digitalized work across the borders a WEPO has calready agreed ito smakes international rules afor protecting copyrights covering binformation, secunds and pictures which are sent through the aInternet; for sother electronic network and it is repeating arguments in order togadopt a protocol satzitherend of December, 1996 for revising the Bern Convention and adding digital information circulating through an electronic network as an object for protection.

It appears that the solutions as cited above may be desirable for protecting the rights of a copyright paner in the Totaront age.

3: Distribution of Software Programs with rough withe Internet and the Enforcement of Patent Rights was a sawdies of 198 and downed a various and all decreases of the court and so all and the court and sale of the court

A commercial transaction through the Internet will porbably create a variety of problems, since the Internet world has no border. Decision of a software program through the Internet which is covered by a certain software patent under the current Patent Law:

(1) Facts:

- (a) A patentee Al owns a patent "a" covering a software in country A and a corresponding patent "a'" in another country C:
- (b) The patent "a" includes a claim (or claims) covering a magnetic recording medium having a software recorded therein;
- (c) The Patentee Al intends to keep the exclusive right and to grant no license in the country A;
- (d) The Patentee Al has a Licensee C1 a license of which is effective only in the country C;
- (e) The Patentee Al does not own any corresponding patent in country B;
- (f) Network Providers A2, B2 and C2 conduct a network business in the countries A, B and C, respectively; and
- (g) Each of the Network Providers A2, B2 and C2 has servers only in their own country.

Under these circumstances,

call a software covered by the patents ball and "all" by uploading it on the Internet in the country B through the Network Provider B2; and and notices and it is because A jears in the country and glastical and the patents and all and and an internet in the country between A

(b) The Licensee C1 has also started tobselleassoftware using the patents; "a" canded at the by suploading it son the Internet mingthe country C.s. To not dustrictly set more settle thanks a volume of the patents and settle used the patents and the country of t

Factor (a) A paisstee Al owns a pacent "a" covering a software in and a corresponding patent "a" in **EK**notium Tamisio no: misio a cebulomi ' econding medium having a software Internet 1 intends to keep license in the country A; ites Al bas a Livensee Cl a licerse of which thy in the country C; (e) The Paten the rw(f B2) on re responding patent in country B; 2 conduct a network Upload business in t Toda (visvidosque)

Under these circumstances,

servers only in their own country.

- The act of B1 in country B does not constitute any infringement in Country B, insofar as no relevant patent exists in the country B. It may, however, be possible to say that the act of B1 amounts to an "offer for sale" in countries A and C, insofar as B1 is aware that the users of the networks in those countries see the uploaded software. The Patentee A will, however, have substantial difficulties under the existing laws to rely upon the patents in country A or C for having B1 stop its act in country B unless B has no place of business in country A or C, insofar as B1 uploads the software only to the server in country B.
- (b) Actuby a user of having the software displayed on the screen of his personal computer:

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The act by a user of seeing it does not constitute any infringement:

(c) Act by Bl of selling a software to people living in country A or C through the Internet:

(d) Act by Bl of selling a software to people living in country A or C through the Internet:

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(e) Act by Bl of selling a software through the Internet:

(e) Act by Bl of selling a software t

This is a difficult question. It may be correct to conclude that the act of sale has been conducted in country. By if the user has gained access directly to the server in country, By it is a however, possible that the software may have been transferred from the server in country. By to the server in country, A or Country and stored in the latter. In such a case, it may be correct to conclude that the act of

sale has been conducted in country A or C. If it is concluded that the act of sale has been conducted in country A or C, it may be correct to consider that the act of B1 infringes the relevant patent.

been conducted in country B, it will be possible for the patentee to assert his right against the user in country A or C, insofar as the user has conducted an act of importing the software. As a matter of fact, however, it will be difficult for the patentee to assert his right on any such occasion, since it would be difficult for him to identify persons who have purchased the software through the Internet. In the event that a user purchases the software for private use and uses it for private purposes, his act cannot be considered as infringing the patent in a country having a legal system similar to that of Japan.

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v.(d):Act of Network Providers: 1988 to deep a yellion Sell

The software uploaded by B is stored in the server of the Network Provider. If the server is located in the country where any patent exists, therefore, it will be possible to assert its patent right to the Network Provider. In the instant case, if the software is stored in the server of the Network Provider A2 or C2, it will be possible to accuse the Network Provider A2 or C2 as an infringer. It may also be possible for the patentee to accuse the Network Provider A2 or C2 in the country where his patent exists, on the ground that the Network Provider is offering for sale the software infringing the patent.

(3) (Act of Dicensee C1: ad and bise to don being shellower

The act by C1 of selling the software in country A through the Internet can be considered as giving rise to problems similar to those resulting from the act of B1 as discussed above, since C1 has the license granted only for country C. If country A is Japan, however, there is every

Title to a difficult grassion. It may be conserve to

likelihood in view of the court decision in the BBS case (*vii) that the act of C1 may be considered as a parallel import of genuine goods, and as not infringing the patent in country A. It will, thus be very difficult to maintain a licensing strategy on a country to country basis as long as a software patent is concerned to be a second as a long as a software patent is concerned to be a second as a long as a software patent is concerned to be a second as a long as a software patent is concerned.

4.: Other Problems Concerning Intellectual Property & Globing

(1) Patent infringement on the Internet:

The progress of network technology has made (it possible to use the Internetolike a LAN and start a variety of new businesses. This is a situation which was never anticipated when the existing laws were made, and which will no doubt give rise to various problems in the future of

of Citibank relating to electronic money (*viii) which was widely reported in newspapers in the beginning of athis years of colors of a color of a colors of a col

for implementing electronic money payment as an alternative medium of economic exchange to cash, checks, credit and debit cards, and electronic funds transfer according to the Background of the Invention in the patent publication. The invention as defined by claim 1 is characterized by keeping a record of transfer of electronic money through a process of its circulation from one place to another after its issuance by a bank, so that it may be possible to trace the route of its circulation. The invention makes it possible to have the issuing bank guarantee the monetary value of the electronic money, and detect any forgery or wrongful act in the process of its circulation.

As this patent claims the circulation of electronic money through a network, however, there is every likelihood of the scattering in a plurality of countries of the essential elements of the invention, i.e., an "issuing bank

having an on-line accounting system", a "money generator module" for generating electronic money, a "teller module" for receiving and disbursing electronic money, and a "transaction module" for performing on-line transactions. If such is the case, it is not within a single country that the invention is practiced, but no infringement can occur. Thus, we can see a limitation arising from the territorial principle on which the grant of any patent in each country is based.

Pakere inigingment on die Incernet:

(2) Use as priorgant: micha linewise to enempone of

The next question is whether or not a document published through the Internet can be considered as prior art, i.e., as prior knowledge or use, or a printed publication. A document published through the Internet without having any particular limitation imposed on access to it can be considered as public knowledge, since it is understood that public knowledge requirement merely requires that the information in question be public available. But what about electronically stored documents on the Internet at some point in time, but are then later deleted? Even such a document will, however, be considered as public knowledge if it is possible to prove the existence of the document on the Internet at some point in time (though it may be difficult to do so).

As the Internet connects computers throughout othe world, another question is whether or not any and all documents published through the Internet can be considered as public knowledge in this country. For example, no matter who may access the documents in a home page in a server at a South American country, with is a difficult question to decide whether or not, the documents will be considered actually as public knowledge in Japan.

constill another questions is whether or not electronic documents on the Internet can be considered as printed publications. SEIn Japan, the vterms printed publications.

are understood as meaning documents, drawings or like medial reproduced for the transmission of information, for the purpose of open to the public by distribution. Any document on the Internet is usually accessible within the day of its uploading, and can, of course, be printed. There is, however, Pittle discussion about this matter as yet, but it will be necessary to watch its development in the future and beast sequence of pressure at it variables.

(3) Micense agreement on the Internet abusing stocking wen At present, some softwares are distributed through the the sound development of networks. More specification and isso Referring, for example, ito a certain software, a person who want to download it, first displaying a license agreement, and must click on an "acceptance" icon to download the software. Another software also display a license agreement before downloading. And this agreement contains a provision that an act of downloading the software shall be regarded as a consent to the agreement. According to still another case, a license agreement meed not be displayed for downloading and oftware probable to be displayed before downloading the software, but is to be displayed before the downloaded software is instabled, and it is is impossible to tinstall without Madisplaying sather agreement and clicking an "acceptance" icon.

While these cases and particularly the former two are license lagreements converted internetive. They do not substantially differ in form from a shrink-wrap agreement as employed widely for a packaged software, and may be considered as a kind of adhesion contract. As othere are, however, a lot of discussion for and against a shrink-wrap agreement, it will be necessary to have a lot of discussion about a license agreement on the Internet to reach a proper conclusion. The virgons is a local in the conclusion of the conclusion.

Information Infrastructure' of September, 1995. *v; Intermediate Report "GREEN PAPER - Copyright and Related Rights in the Information Society" of July, 1995.

5siConclusion spaires to retarment polares as bootenship or a reprorped for the transmission of information, for the theseAssb discussed mabove the existing laws concerning intellectual property and differing from one country to another are incapable of solving not as few problems of intellectual property that may arise in connection with a borderless adcomputer an anetwork such was withe an Internetia Accordingly, it is necessary to consider measures based on new concepts, including the making of new laws, in order to ensure the efficient protection and use of information and the sound development of networks. More specifically, we do hope that WIPO, etc. will make a proper international convention, pawhile leach sindividual acountry makes properagreement, and must click on an laceaptan awhilenian download the softwere: Another software also display a license soreement before Gownloading. And this agreement costains a provision that as set of downloading the *in: Docals Area Network A network formed by connecting computers single single building, sor site with a private circuite for dommunications.gelbackeveb col beyaldath ed dom displayed before downloading the software, but is to be *ii: Wide Area Network. A network formed by connecting a plurality of LAN'n located in distant places from one adisement, and chicking an "acceptance" from . another. While these cases and particularly the former two are *iii: Annetwork which renables services, such as electronic mail@bulletin-board and conference, to be available by a

*iii: A network which enables services, such as electronic mail, bulletin board and conference, to be available by a personal computer at home, or the like on an on-line basis through a circuit for communications. For example, NIFTY-Serve and PC-VAN in Japan, or AmericaOnline and CompuServe in the United States.

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^{*}iv: Final Report "Intellectual Property and the National Information Infrastructure" of September, 1995.

^{*}v: Intermediate Report "GREEN PAPER - Copyright and Related Rights in the Information Society" of July, 1995.

*vi: A "link is run" when, for example, A (a person) opens a home page in his server A and writes there the address (network name, password, etc.) for access to a B's (another person's) paper in his server B, so that a third person C who wants to read the B's paper may be able to gain access to the server B and read the paper by clicking the address for access in the A's home page in the server A with a mouse.

*vii: Tokyo High Court decision of March 23, 1995 in Case No. (ne) 3272 of 1994.

A. Agreements for the Sale Of Phrished Software to End Users

- II. Sale of Finished Software
 - A. License Temes
- B. Shrink Wrap Agreements
- III. <u>Software Development Agreements</u>
- A. Ownership Assignment, Joint Ownership or License
 - B. License Grant for Development
 - C. Torm perpetual, revocable
- D. Debugging, Niedifichtions, and Further Enhancements
 - E. Distribution Rights and Restrictions
 - F. Warranter and Indepatification
 - G. koralues
 - H. Mulimedia

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- I. Type of Software Agreements
 No. (ne) 3272 of 1984.
 - A. Agreements for the Sale Of Finished Software to End Users
 - "viii: Japanese Patent Publication No. Hei 7-111723 streman Remand Streman Research Streman Research
II. Sale of Finished Software

- A. License Terms
- B. Shrink Wrap Agreements

III. Software Development Agreements

- A. Ownership -- Assignment, Joint Ownership or License
- B. License Grant for Development
- C. Term -- perpetual, revocable
- D. Debugging, Modifications, and Further Enhancements
- E. Distribution Rights and Restrictions
- F. Warranties and Indemnification
- G. Royalties
- H. Multimedia

Disclaimer: This presentation involves only the views of the author and in no way represents the views of Harris Corporation. This paper is not intended to serve as legal advice.

Edgir Type of Software Agreements were graded a to galdeer of two la reduction research

Agreements for the transfer of rights in software vary widely. Such agreements range from simple licenses to use a piece of software on a single computer for a defined purpose and number of years to a complex agreement to jointly create, market and sell a new to the world piece of software.

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Lawl. The house here enable the user to transfer the operant from one computer to enother.

For purposes of clarifying issues in this paper, software agreements have been broadly broken into two categories. It is easy to define these two categories if one imagines the role of an attorney at a large software development and marketing corporation, hereinafter called "Publisher." From this perspective two general types of agreements are common. First, there are agreements for the sale of finished software to end users. This type of agreement is very common among mass-marketed application programs. Such agreements are typically not customized and often take the form of shrink-wrap licenses. These agreements usually heavily favor the licensor, but are sometimes rejected by U.S. courts for various reasons that will be discussed. Little, if any, alteration of the software is contemplated by the purchaser.

The second broad category of software agreements are software development agreements. Software development agreements are agreements transferring rights in software wherein the Publisher and Developer agree to create, modify or alter software. In other words, the Developer is expected to be more than just an end user who runs the software. Software development agreements are very complex and must be intensely customized to suit the often competing needs of the Publisher and Developer.

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II. Sale of Finished Software

The sale of finished software to end users represents the most common form of licensed software and represents the vast majority of software sales in the U.S. Broadly stated, the most common and significant aspect of this type of sale is that the user's license is restricted to using and executing the object code only. In other words, the user is not entitled to modify the object code or to obtain or utilize the source code for the purchased software.

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The typical license granted to an end-user of mass marketed software is narrow in scope—the end user only receives the right to use the software with no rights or obligations regarding modifying, transferring or enhancing the software. As a practical matter without the source code it is difficult for a user to alter the program or make derivative versions of the program. The Publisher is solely responsible for handling any bugs in the program and for issuing updates. A common license to end users is non-exclusive, non-transferable and will usually allow the user to "install and execute the program on __ computer(s) owned or leased by the purchaser." The

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¹ However, when the software is primarily data, such as a telephone directory, access to the object code necessarily.

Provides access to the most valuable part of the software-the data and the part of the most valuable part of the software-the data and the part of the object code necessarily.

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[&]quot;Licensor grants to the licensee the right to install, use and execute the Software on one computer (i.e., with one CPU) that licensee owns or leases [at the designated location]. Licensee may not network the Software or otherwise use it on more than one computer or computer terminal at the same time. Licensee may not rent or lease the

license might further allow the making of a back-up copy of the program (per U.S. Copyright Law). The license may enable the user to transfer the program from one computer to another, provided that the program is never simultaneously used in more than one computer, or alternatively, the purchaser may obtain a license to use unlimited copies of the program at a designated location.

Typically, the Publisher retains all title to the software and the end user receives only the above described license for limited use. The Publisher will commonly indemnify the end user for any allegations of infringement and for failure of the software to perform as specified up to the price of the software.

"Published" From this perspective time adaptal track of surrements are common. First flare are

The above structure works for end users interested only in executing the software for its intended purpose. However, when the end user is, for example, a large corporation buying a fairly unique piece of software, such as a Computer Aided Design system, the corporation will typically desire to have some ability to modify the program to tailor it to certain unique needs. The corporation may also need to obtain training from the Publisher so that it understands exactly what is being purchased. Unlike mass-marketed software that has commonly accepted minimum standards of performance, compatibility, and functionality, large user specific pieces of software are more likely to be non-standard.

When the software is non-standard, fairly unique, may require user modifications and is very expensive, it is time to consider the detailed license terms discussed at Section III of this paper titled Software Development Agreements. Such agreements raise concerns simply not addressable in a standard license discussion.

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B. Shrink Wrap Agreements

Perhaps more than any specific license terms in an end user agreement, the most significant issue facing mass marketers of software is enforceability of such agreements in the courts. More specifically, will a court uphold the terms of a contract included with the software in the form of either a shrink wrap agreement or an agreement downloaded with the software over the Internet? In Step Saver Data System, Inc. v. Wyse Technology, software was purchased over the telephone, a purchase order was then sent and another essentially identical purchase order was returned to the purchaser. Subsequent to the above, the software was sent to the purchaser in a box and the license agreement at issue was on the box cover. The court found the shrink-wrap

Software, but may transfer the Software and accompanying written materials on a permanent basis provided that licensee retains no copies and the recipient agrees to the terms of this Agreement. Licensee may not reverse engineer, decompile, or disassemble the Software. Licensee may not use, copy, modify, transcribe, or transfer the Software or any copy in whole or in part except as expressly provided in this license. All rights not expressly granted are reserved by the Licensor."

Computer Software Agreements, S10-8; Ridley, C. H.; Quittmeyer, P.C.; and Matuszeski, J. (1993).

A site license should contemplate a license to use the Software on computers at least [sites defined geographically and by computer system]. The license may also contemplate that the user can not use the program on more computers (CPUs) than the number of licensed copies of the Software delivered to user. See <u>Legal Care for Your Software</u>, Remer, D.; Dunaway, R. (1995). The Publisher may want to reserve the right to addit the end user's use of the Software to make sure the terms of the site license are not violated.

^{4 939} F.2d 91 (3d Cir. 1991) (the user had to press a key signifying acceptance of the license), we shall obtain as it will

license unenforceable as a matter of law because acceptance of the goods was not conditioned on acceptance of the license Rather, the contract was formed when the order was accepted and was never modified to include the license like along the like accepted and was never modified to include the license like along the like accepted and was never modified to include the license like along the like accepted and was never modified to include the license like along the like accepted and was not conditioned on acceptance of the goods was not conditioned to accept the goods was not co

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One recent Seventh Circuit case found that a shrink-wrap agreement inside a box containing the software is valid and enforceable because, before the user could utilize the software, the license was shown to the user and the program would not let the user proceed without indicating acceptance of the license terms. Thus, the final contract between the Publisher and seller was acknowledged by the user's action.

Regardless of whether software is distributed over the internet or over the counter, the Publisher should design the software to display the license on the user's screen upon first use. The software should thereafter be usable only if the user accepts the license, such as by clicking on a "yes" button. The Publisher must offer to take back the software and refund the users' money if the terms of the license are unacceptable. If the sale is over the counter, in addition to the above, the Publisher should put the terms of the license agreement on any purchase orders and on the outside of the box containing the software.

Therefore, a Published desiring ovaciship of the software acces to explicitly obtain

Pecase grant (Section IIIR below) or he in addition to a license grant. For example, the Publisher

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Software development agreements come in many forms. These agreements may take the shape of small projects to modify an existing program for internal use in a corporation or they may be large projects to develop "new to the world" finished software for a Publisher to market and sell, such as a multimedia game. In either case, the principal desires of the parties are the same. Specifically, the Publisher buys the created software or software services and wants to make sure that a complete operational piece of software is delivered on time by the Developer. The Developer wants to ensure that the parameters of its obligations are well defined and that, once the software is delivered, the Publisher adequately markets and sells the product. All the expected obligations and results of both the Developer and the Publisher need to be put down in an agreement so that each party knows what the contract covers.

Thus, when drafting a software development agreement, a task of primary importance is defining that which is being licensed, often called defining the "deliverable goods." The most common manner for describing software is by the use of exhibits that list what the Developer will provide. The exhibits may include actual object code or definitions thereof, list files, functionally describe what the software will do, list all associated documentation that will be provided with the software, and completely describe the Developer's support obligations for debugging, modifications and future enhancements. Only by objectively defining the parties' expectations for what product and services will be provided when, and at what cost, can both parties ensure that fundamental misunderstandings do not occur.

⁵ ProCD Inc: v: Zeidenberg: 39 U.S.P.Q.2d 1161 (7th/Cir./1996): constructions and adjustence gaight wearing

If a complete manual exists, the program can be described as "performing all the functions and having all the features detailed in the manual."

One should specify when and where the software will be delivered, and a bonus for early delivery or a penalty for late delivery may be appropriate.

For example, the parties should agree in writing that the delivered software will have minimal operational characteristics that may be defined. The agreement may state that the software is compatible with, and will operate with certain types of machines (i.e., IBM compatible or Macintosh), and other software (i.e., which operating systems, spreadsheets, etc.). Specific functions that must be performed and any obligations to perform training should also be called out in detail. Further, the conditions for accepting or rejecting deliverables, and time to correct rejected deliverables, should be defined. It is only after the parties completely understand and define what is to be developed that a solid software license agreement can be drafted.

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and on the putality of the box continues the software.

A. Ownership -- Assignment, Joint Ownership or License out assume out to a substitution of the excellence of assistance of the accelerate of the excellence
Some Publishers used to assume that if a work is commissioned, then all copyrights in the work belong to the Publisher under the work for hire doctrine. However, case law indicates that such trust in the work for hire doctrine is misplaced. Not only does the work for hire doctrine leave the question of copyright ownership unsettled, it also does not resolve issues such as trade secret or patent rights in the software.

Therefore, a Publisher desiring ownership of the software needs to explicitly obtain ownership of the software from the Developer in the agreement. This assignment can replace a license grant (Section IIIB below) or be in addition to a license grant. For example, the Publisher may want the original work assigned by the Developer and may want a license to software indirectly developed as a result of the commission but outside the assignment terms. A sample assignment/work-for-hire clause follows:

The Software has been specially ordered, commissioned and paid for by Publisher. Developer agrees that the Software is a "work made for hire" for copyright purposes, with all copyrights in the Software cowned by the Publisher. To the extent that the Software does not qualify as a work made for hire under applicable law, and to the extent that the Software includes material subject to copyright, patent, trade secret, or to the proprietary right or protection, Developer hereby assigns to Publisher all right title and interest in and to the Software, including but not limited to, all rights in and to any inventions and designs embodied in the Software or developed in the course of Developer's creation of the Software.

The Developer will typically want a grant back license to the software so that enhancements, modifications, or derivatives can be produced, and to ensure that modules from the program can be re-used in non-competitive programs. Given the proper non-competition clause, the Publisher will probably not object to such a grant back.

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Community for Creative Non-Violence et al. v. Reid, 490 U.S. 730 (S. Ct. 1989). Absent a written agreement acknowledging ownership in the Publisher, the courts look to whether the Developer is acting more as an a Cloud independent contractor or an employee (i.e., supervision, taxes removed from wages, etc.) to determine ownership of the work.

⁹ Van Arsdale, Cory H., Microsoft Corp., "Software Development Issues", Presentation to AIPLA Licensing and Committee, 25 January 1996.

possible. A joint ownership clause is as follows: The same assignment, joint ownership is

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Publisher and Developer each shall have an undivided, joint ownership interest in (i) the Software; and (ii) any derivative technology of the Software created by either party during the term of development and maintenance under this Agreement. Neither party shall be obligated to pay the other royalties or other consideration, nor account to the other for any royalties or other consideration it may receive, for any licenses, assignment, distribution or other disposition of the Software, or any derivative technology thereof. Any derivative technology made after completion of development and maintenance under this Agreement shall be owned exclusively by the creator of such derivative technology. 10

With joint ownership, the Publisher should obtain the source code to ensure that it can practically utilize and modify the software. Depending on who ultimately ends up as the owner, or if joint ownership is decided upon, a "tie-breaker clause" on rights not specifically allocated would be "all rights not specifically granted herein are reserved by the (Developer or Publisher)."

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If the Developer is to retain ownership of the software, then a license to the Publisher is required. The Developer and Publisher will typically want the license to be worldwide. This may not be practical if the Publisher is unable to sell the product in a certain region or the Developer does not want the product sold in certain markets.

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Presented below are several licenses of different scope. First, a license from a powerful software design, manufacturing and publishing house that wants full rights to copy, modify, use and sell the software may be: And Das and sell the software may be: And Das and sell the software may be: And Das and Salar and

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Developer hereby grants to Publisher a non-exclusive, perpetual, irrevocable, royalty-free, fully paid up, worldwide right and license to: (i) use, copy, edit, format, modify, translate and create derivative technology. To the source and object code versions of the Software; (ii) reproduce, license, rent, lease or software distribute, and have reproduced, licensed, rented, leased or otherwise distributed, to and by third parties, source and/or object code versions of the Software, and any derivative technology thereof; and (iii) grant the rights set forth in this Section in the Software to third parties, including the right to license such rights to further third parties.

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¹⁰ Id.

Derivative technology may be broadly defined to include any intellectual property rights created during development of the software. Derivative technology should include all such rights in any version of the originally defined software, including but not limited to a derivative version of copyrightable material such as a translation, including a translation into other computer languages, portation, correction, upgrade, modification, compilation, abridgment or other form in which the software is adapted or transformed.

Such a license is often perceived as over-reaching because the Publisher has such broad rights to the source and object code. However, if the Developer is compensated for any modified or enhanced version of the software that is created and sold by the Publisher, or third parties licensed by the Publisher, such fears should be abated. For a broad license like the above, the Developer may desire to have a clarification of title clause. The clarification of title clause states that except as expressly licensed to the Publisher, the Developer retains all right, title and interest in the Software, subtisment suite with our or hopegliste and finds some assistant decompanyed

Alternatively, the Developer may have finished software that the Publisher does not need to or can not modify or enhance. In this case, an alternative, narrower license would be:

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The Developer hereby grants to Publisher, for the duration of the agreement, a world-wide, exclusive 12 license to market, distribute, reproduce, import, export, rent, lease, offer to sell and sell copies of the Software, and to sub-license A 4877 reserve coothers to market, offer to sell, and sell copies of the Software for use on all selections. had goodly existing or yet to be developed computers. The ready had been an animal response which it is

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The above licenses captures the limited scope of rights to be transferred to the Publisher not interested in modifying the software. Especially when using a license such as the above, the parties need to make sure the specification describing the finished software is detailed and complete. Otherwise, the Publisher could be in the position of having paid for software that does not work and which the Publisher does not have the right to modify, or the Developer may be asked to perform uncompensated work that may be outside the scope of the original agreement.

Chass discount blee babers at their lon seeb supplevell Term -- Perpetual or Revocable

The term of software development agreements can be set at a date certain which can vary depending upon the relationship between the parties and the useful life of the products. Typically, upon such termination of the Agreement, all rights in the software revert to the Developerging as well interested in a social property of the p

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The Developer and Publisher may have the agreement terminate automatically if certain sales goals are not met. This protects the Developer in case he perceives that the Publisher is inadequately marketing the software to reach obtainable sales goals. Similarly, the Publisher may want to terminate its obligations to promote the sale of software that is a poor product. Of course, the Publisher will want to reserve the right upon termination to deplete its inventory. dons, werent er tilde sen reihelune sehrere hritt eit bezwillett sitt ei merheit erb ei

Certain large Publishers may not agree to any obligation to market or sell the software. Such a refusal certainly means that the Developer needs to retain the right to terminate if certain sales goals are not met, grant only a short-term license or needs to make the license nonexclusive.

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See Section E-below regarding exclusivity. Facilities of the description of the description of the analogodyness

If the Software contains multimedia aspects then the above language may be generalized to the right to distribute work for use on "any device now known or later developed." An example where this modification to the license might be especially desirable is when software is run from a mainframe and transmitted to the user's television.

2011 D. Le Debugging, Modifications, and Further Enhancements which process will review to the

Commonly, the Developer will fix bugs at no cost to the Publisher, but updates, modifications, derivatives and further developments are paid for by the Publisher. ¹⁴ Typically, if an uncorrected error is deemed to substantively effect the marketability of the software, the agreement may be terminated by the Publisher. Thus, it is very important to satisfactorily define what is the deliverable software and what is "derivative technology," so later disputes over payment obligations for debugging deliverables versus creating enhancements are eliminated.

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Turning now to enhancements, the agreement might also call for the Developer to supply the existing code plus new development or, alternatively, a license to the Publisher to make changes. Incentives for the Developer to supply the enhancements can be provided in at least two ways. The Developer can be paid a set rate per hour for work performed in providing the enhancements. In this case, the agreement needs to explicitly call out the extent of Developers efforts in developing the code, compensation paid the Developer for the new code, and recourse for the Publisher if the Developer fails to create the new code. However, this may raise concerns about the Developers availability and ability to produce the enhancements at some unforeseen date in the future. A better choice is to allow the Developer to make enhancements at no charge to the Publisher, and to obligate the Publisher to include the changes in new versions of the program. The Developer will presumably benefit from increased royalties on sales of the program due to the enhancements.

If the Publisher is to create enhancements, then the question becomes for what purposes can the existing code be modified. If the Publisher is covering the expense of making modifications, it is common that the enhancements may be made for any reason "consistent with improving the marketability or salability of the program." Alternatively, the Developer may be given first chance to modify the program (for no charge), and upon failure to make the enhancements the Publisher can make the changes and charge a certain rate per hour against future royalties owed the Developer based on sales of the enhanced program.

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For new code development the Publisher either needs a license to make changes or an obligation from the Developer for future development. Unless the Publisher is very confident that the software is operationally perfect, will require no enhancements or that the Developer will make all needed modifications, the Publisher may want a narrow right to make derivative works. Such a right may be limited to certain purposes, such as debugging the software. A license to the Publisher for creating "derivative works" may grant "an exclusive, personal, non-transferable, non-assignable license to use, modify and develop derivative works for the purposes in Exhibit __, and to reproduce, license, sublicense, distribute, sell and offer to sell object code version of any derivative works created by the Publisher pursuant to this Section."

¹⁴ If Developer has reason to know errors exist, or if Publisher notifies Developer of errors, Developer shall use best efforts to correct the errors, or inform Publisher that errors can not be corrected, within _____ (amount of time).

Such a clause might read "the Developer may provide any program enhancements that improve the marketability or salability of the program. If the enhancements significantly improve the marketability or salability of the program, Publisher shall include them in new versions of the Program within ______ time." Marketability and salability of the program may be left generically defined or may be defined in terms of improved program performance, new uses, or other more specific ways.

No matter the scope of the license, the license given by the Developer should transfer rights in patents and trade secrets used in future enhancements of the software to the Publisher. Both parties are well advised to agree whether the license covers material or technology created as enhancements, improvements or derivatives of the original software, and includes copyrighted material, patented or patentable material, and material that is protected as a trade secret or is derived from trade secrets. Otherwise, if the relationship between the parties becomes troubled or is severed, then ownership of intellectual property may be confusing and add to the instability.

Answers to many of the above questions about who is responsible for bugs, modifications, and future enhancements will generally resolve the question of whether the Publisher gets source code or only object code. If the Publisher only wants the right to market and sell finished software, receiving only object code is acceptable. However, if the Publisher will debug or modify the software then it is appropriate that the Publisher receives the source code. Because possession of source code is such a sensitive issue, many practitioners employ a source code escrow agreement that will release the source code to Publisher only upon the occurrence of some release event (i.e., breach by Developer or failure to make enhancements). However, such agreements are preferably a last resort. Defining release events often proves tricky because it is difficult to agree on what could go wrong and, at the time it is going wrong, agree that the release event has occurred. Further, by the time the parties agree that a release event has occurred (if they ever do), the market window for the software has probably passed. Therefore, from the Publisher's perspective, the best approach is if you need the source code, negotiate up front to get it and limit your rights to modify or enhance the code to situations analogous to release events. In this manner, the Publisher has the code and can be working on a solution while the issue of whether a release event has occurred is resolved. The Developer can still enforce its rights, including an injunction, if the Publisher fails to prove that the release event occurred texis movem od space respulsarski mili vyterinamenik. Tanciosa (di ka villachie ta villacreima:

Finally, it may be in the interest of both parties to sign a non-competition clause bounded by the scope of the software creation. Because reproduction of software is so easy, such a non-competition clause may satisfactorily protect both the Developer and the Publisher from creations by the other of "knock-off" products.

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Depending on the size of the Publisher and the Developer's own abilities or other contracts, distribution rights may be given for marketing and sales to end users, distributors, and OEMs, or any combination of the above. This is a practical matter and the terms of the license can be modified to narrow or broaden the scope of the distribution rights as needed.

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Many large Publishers will want any language that could be perceived as creating an exclusive relationship removed from the contract. This will help prevent allegations of fraud and willful breach of contract that sometimes arise from large company/small company ventures.¹⁶

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Developer's ability to acquire, license, develop, manufacture or distribute for itself, or have others acquire, license, develop, manufacture or distribute for beveloper, similar technology performing the same or similar functions as the technology contemplated by this Agreement, or to market and distribute such similar technology in addition to, or in lieu of, the technology contemplated by this Agreement. "Software Development Issues", Van Arsdale more

The Publisher should have the right to sublicense software for the purpose of granting site licenses. The terms and conditions of the site license may be defined or the parties may agree to not unreasonably withhold consent for site licenses over some minimum size. Further, because royalties may be on a per copy basis and site licenses may not be structured so that a per copy analysis is possible, and because site licenses are less expensive than per copy retail sales of software, the parties should agree up front on royalty terms on such licenses.

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F. --- Warranties and Indemnification for P. -- P.
When the Publisher is an owner of the Software, the Publisher will typically want the ability to control intellectual property rights. For example, the Publisher may wish to control (and pay for) filing of patent applications and any litigation resulting from the exercise of those rights. Alternatively, the Publisher may prefer to retain the software (source code) as a trade secret rather than file for patents. In such a situation, the Developer will want a disclaimer as to intellectual property claims against the Software, and as is set forth in the associate footnote may wish to disclaim all warranties, except perhaps copyright infringement.

Developen. Conversaly, the Doveloper will want to roper liability if the software is modified or

On the other hand, when the Developer owns the software and is simply licensing the Publisher, the above disclaimer is inappropriate. In this case, the Publisher will try to obtain a complete warranty that the Software: (i) is original to the Developer and does not infringe any copyright, patent, trade secret, or other property right held by any third party, (ii) was/will be created by employees of the Developer within the scope of their employment and under an obligation to assign all property rights (including inventions) to the Developer, or that any independent contractors are under written obligations to assign all rights in the software to the Publisher, and (iii) shall be of a high grade quality.

Regardless of whether the Publisher or Developer owns the software, the Publisher will want to ensure that the Developer (i) has not previously granted any rights in the software to third parties, and (ii) that the Developer has the full right to make the assignments/grants in the agreement as a grant was a software with the last the full right to make the assignments/grants in the

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The question of indemnification arises when assessing liability for the software. For example, if the Publisher has sole ownership of the software the Developer will likely want reimbursement for payments made or losses suffered which are based on a court ruling or agreed upon settlement. To avoid any confusion as to the issue, the Developer will probably want the ability to retain independent counsel at its own expense.

For exemple, closs the cost of microfing a trade show to promote the program get deducted from not sales as an alterance? The parties should agree on this beforehead, and anny want to set an apper limit on expenses.

The Software is provided to Publisher as is without warranty of any kind. The entire risk as to the results and performance of the Software is assumed by Publisher. Developer disclaims all warranties, either express or implied, including but not limited to, the implied warranties of merchantibility, fitness for a particular purpose and account noninfringement, with respect to the Software.

¹⁷ Sample clause:

¹⁸ Standard terms for such indemnification would cover any costs, damages and fees reasonably incurred, including but not limited to attorneys' fees and the fees of other professionals.

sale gAlternatively, if the Developer retains ownership in the software, the Publisher may want indemnification, such as the following: your associations with the software, the Publisher may want indemnification, such as the following:

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Should the Software or portion thereof be held to constitute an infringement and only or use as contemplated by this Agreement be enjoined or be threatened to be explained enjoined. Developer shall notify Publisher and immediately at Developer's without expense: (i) procure for Publisher the right to continue use of the Software as licensed; or (ii) replace or modify the Software with a version that is non-infringing, provided that the replacement or modified version meets the Specifications to Publisher's satisfaction of If (i) or (ii) are not available to Developer, in addition to any damages or expenses reimbursed under Section of Village and Clademity), Developer shall refund to Publisher all amounts paid to Developer by a charge of an expense of the Software and the results of the software and the results of the software and the results of the software and
The Publisher may also want a clause that obligates the Developer to defend any claim or action brought against the Publisher that, if true, would constitute a breach of the warranty granted by Developer. Conversely, the Developer will want to reject liability if the software is modified or altered, or used in a manner not intended or authorized by the Publisher. Said and odd of a mission of the warranty granted by the Publisher.

In any event, the party controlling the software and the litigation will want the other party to: (i) provide reasonable notice of any claims adverse to Developer's or Publisher's interest in the software, (ii) hire (and pay for) mutually acceptable counsel to defend claims, and (iii) assist in the defense of any claims in any reasonable manner, including providing information, assistance and authority. Further, each party will want a clause ensuring that they are not bound by any settlement agreement not signed by the party.

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This is the issue most interesting to the business people but perhaps least interesting from a legal perspective. Royalties or fees can be put into many forms, such as development fees paid on a schedule for achieving milestones, paid up royalties, or royalties based on sales. The sum and type of royalties can be shaped to almost any form based on strengths and needs of the respective parties. Again, however, if a paid up royalty or development fees are to be made, the specification must clearly describe exactly what work is required to obtain what payment. If royalties are to be paid based on net sales, define whether free demonstration copies qualify as sold and determine what is deducted from net sales by the deduction of "allowances" from sales. For example, does the cost of attending a trade show to promote the program get deducted from net sales as an allowance? The parties should agree on this beforehand, and may want to set an upper limit on expenses.

H. Multimedia

If the software being developed contains multimedia, the Publisher has additional licensing concerns. Specifically, if still pictures, moving images, music and other works are to be incorporated into the developed software, the Publisher needs to obtain the right to make

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The licensing of all the above types of works raises questions as to the right to alter the original work. For example, when one receives the right to incorporate music into a piece of multimedia software, is the right to combine that music with still or moving images also granted? The answer is generally no because the Publisher will typically want to edit and synchronize the music to match the visual images. Therefore, when music is licensed, one must also consider the need for a synchronization license and the right to create derivative works. Such a license allows the synchronization of music and video, whereas a simple mechanical license only to replay of the song will not cover the creation of a derivative work that emerges from the combination of music and video. Likewise, the Publisher may desire the right to alter image, for example, by cropping still images, splicing moving pictures, or colorizing black and white movies. Such ability to modify the work may be the only way for a Publisher to modify the original work into a form usable in the multimedia application. However, such broad rights also cause Developers (i.e., artists, photographers) concern because the Publisher may modify or alter the work in a manner that diminishes the value of the work or contradicts the artist's vision of the work.

A skilled clearance specialist will enable the Publisher to obtain all the necessary rights without overpaying to obtain rights not needed to complete the project. Such concerns make multimedia licensing an extraordinarily complex problem that demands strict attention to the acquisition of rights from all appropriate parties.

From the above it can be seen that software license agreements come in many forms. The practitioner must first understand all the business and technical aspects of the transactions. Using the broad categorizations and the issues described above, in conjunction with such business and technical understanding, a good software license agreement can then be formed.

Venture Capital (VC); Venture Burlagss (VB)

(6) Shiramairy f

This paper focuses on transactions with venture businesses which in these days have drawn much attention. As international despoittion before accessed note intensified, venture compenies with fresh and unique ideas and technologies are regarded by time-cies to culturions as gioneers to exploit new businessed in promising investments. Through transactions

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This right of reuse or right of publicity is standard. The Screen Actors Guild or American Federation of Television and Radio Artists can be contacted to locate the agents for such personalities.

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Sato Sato Toyota Motor Corporation Motor Saton Motor Motor Saton Motor Saton Motor Saton Motor Saton Motor Saton M Landborgusz Masaaki o Shibagaki tun ezo Kobe Steelma Ltd. e bait sunn consideran Iffing the Broad categorizations and the issues described above, in confunction with such Dearch of medities incomenge cassoil arewhole beeg a .gaibneterches lasimust but examinad (5). Key words:

Venture Capital(VC); Venture Business(VB)

(6) Summary:

This paper focuses on transactions with venture businesses which in these days have drawn much attention. As international competition becomes more and more intensified, venture companies with fresh and unique ideas and technologies are regarded by financial institutions as pioneers to exploit new business and as promising investments. Through transactions with such venture companies, established companies may obtain access to their advanced technologies. The venture companies well

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in return, have access to funds, personnel and goods, which they generally lack, from established companies. Such transactions thus bring benefits to both sides. When making contracts with venture companies, however, one needs to be careful about their instability. This paper points out, from a practical point of view, risks in transactions and important issues to be aware when making contracts with venture companies. It covers the legal system to back up such businesses, ways to access bud intellectual property owned by venture companies, and the difference between supporting systems of Japan and USA. Lincol other hand, transportions with established companies havingise their credibility and provide veribus ampoorts. The cossibility is hisbar, though, that unexpected trouble may kappen in implementing the contracts involving VE when compared with those smore established companies. Then what pounts should we note in sexung contracts to avoid sage trouble? This caper promotes measures in view of preventive level practice and reaction) business considerations.

- 2. VB and its Circumstances in dapah:
 - (1) Cirquestances for V8

Today activities of VB and venture capitais (VC), which provide funds to VB, are often covered by newspapers and other media. This is the result of mising interests in VB and VC by government and established companies. The VC funds are actually growing and larga-scale investment partnerships based on VC are actively formed, while companies to invest in VC are also growing both in number and fields. The subject of such investments are those VB whose actuvities are recognized by the government and in the future in such fields as elactronics, biotechnology and in the future in such fields as elactronics, biotechnology and new materials. While Japan had its so-called "venture boom" in the early 1970's and mid-1980's, many VB at that time went bankrupt because they could not keep up with the change in economic trends and the chromestances were not conductive for developing VB. Currently, however, VB are expected to achieve

very Check points in a Contract with a Venture Business and generally isoly from deballished bragantes. Such cremenctions 1; Preface theo pointer neil . Esbar allod of edileged paind audi vanture compenies, however, one neads to be care this about their to saiAonumberoofatransactions with venture businesses as a l hereinafter: "VB" such as technology transfer and joint R&D is on the rise. To established companies that seek new growing businesses, the vactivities of VB, which are focused on new f technologies and fields danger dompanies cannot treach, Tare t worthy of notice or sometimes essential to them. To VB; on the other hand, transactions with established companies may raise their credibility and provide various supports. The possibility is higher, though, that unexpected trouble may happen in implementing the contracts involving VB when compared with those among established companies. Then what points should we note in making contracts to avoid such trouble? This paper

proposes measures in view of preventive legal practice and

2. VB and its Circumstances in Japan

practical business considerations.

(1) Circumstances for VB

Today activities of VB and venture capitals (VC), which provide funds to VB, are often covered by newspapers and other media. This is the result of rising interests in VB and VC by government and established companies. The VC funds are actually growing and large-scale investment partnerships based on VC are actively formed, while companies to invest in VC are also growing both in number and fields. The subject of such investments are those VB whose activities are recognized by the government and established companies, and whose importance is expected to rise in the future in such fields as electronics, biotechnology and new materials. While Japan had its so-called "venture boom" in the early 1970's and mid-1980's, many VB at that time went bankrupt because they could not keep up with the change in economic trends and the circumstances were not conducive for developing VB. Currently, however, VB are expected to achieve

greater results in the field of new technology? There are good reasons for these higher expectations. The industries are at trying to exploit new business opportunities either and of individually or jointly with other companies to survive such circumstances as: othe increased speed of technological days innovation, a progress of the information society, stagnate domestic economy due to a decline of competitiveness of existing industries and the growth of competitive power of the other Asian countries; and shift of manufacturing facilities of domestic industries overseas. The government also regards creation of a new industry as a critical issue for the further growth of Japanese economy while financial institutions are in needs of exploitingenews investment sopportunities does was because be to sawVBpcondthecothershand/shavedlimitedspowerstoccarry out allicof their ideas on their own. Because they generally have less funds and credibility than established companies to add develop: a new market withwas new technology; they care often forced to cooperate with larger or powerful companies to run a business or obtain investments from VC and other firms. So While it seems that there has not been enough financial and managerial support for VB in Japan, various support systems have recently been, provided and many VC have been launched under the slaud circumstance : As atomofficial supports withere have been called following ameasures: o yier aso SV base redro edd no .. ssiasquoo

(a) Deregulation of rules to make it easier for VB to register ston the over-the-counter stock market! (launch of "special" as over-the-counter market");

other resources of larger companies. For these reasons,

(b) The maximum debt guaranteed by the Industrial to image Infrastructure Organizing Fund under Special Act for Promoting Specific New Business, was increased; Color Support from the Japanese Small and Medium Enterprises

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collateral of or financing. Last year, the Ministry of 19920 to International Trade and Industry (MITI) issued a report on ways to assess intellectual property as collateral. We shall note, however, wthat there is still much to be done both in terms of system and substantiality when compared with the United States. In the United States a number of VC, investors called angels, and other individuals who support VB from management side, have raised the number of VB. It is assumed that these investors are willing to evaluate and invest in the inventions of individual inventors or VB more actively than the investors in Japan, because in the United States greater value is placed on the ability of the individual ... On the other hand, in Japan, or the advanced and new technologies are expected to be developed by big companies because of their size and it may be because of the Japanese culture which puts organizational power higher than individual ability. This may be one of the reasons that, until recently there have been low expectations for the VB's technologies. WB may have advantages in the field of people specialized technologies in which darger companies do not a develop because it is too characteristic to handle for their size of WB and established companies cooperate in their qua businesses, VB, having skills in such specialized fields, may bring benefits by stechnologically complementing larger works companies. On the other hand VB can rely on financial aids and other resources of larger companies. For these reasons, relationships between larger companies and VB are often created. It is possible that, in the future, VB will play a greater role in the fields of new and advanced technologies through further support of Jofficial Jandiprivate sectors. Josh memikas edited)

(2) What are WB? cost asw .asenispG weX willowg8 pyidogma

How can we define VB? In this paper, we focus on such VB whose specialty is in its technological power and thus define it as follows;

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"A pioneering small or medium-sized start-up company with potential to create public needs using new technologies

and ideas and transforming them into a business. "In this paper, we mainly focus on contracts with software companies, and we believe such cases can be applied to other business fields.

(b) Promotion Pffect

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- 3. Transactions with VB we be to be the transactions with the same to be the same
- (1) Essentiality of Contracts in year agos an year vectoralest

VB and established companies take place? We consider this question from both VB's and established companies to point of view mainly focusing on software business.

1) From WB's Pointwof Wiew asset in heldergoese asset unsafere

As defined in the proceeding section, the main activities of VB are to launch and promote new businesses based on its new technology and ideas. However, there is no guarantee that excellent technology will immediately be accepted by the market. Without effective promotion, sales may be low.

Before the business of new technology can fully develop, it is necessary to improve the technology to comply with the peculiarity of the market, as well as promote it and prepare mass production system in anticipation of market demand. WB, which lack strong financial power and credibility, may find it difficult to execute all these matters on their own. A review of VB which have failed in the past, reveals that some of them exhausted their funds due to poor sales despite excessive investment in mass production facilities and personnel engaged in R&D. Though it is a matter of course that investment in a new business accompanies certain risk, it is quite possible that even a single failure that established companies can withstand may cause VB to go bankrupt. To avoid such risks, it seems that VB expect following benefits from cooperating with established companies;

(a) Improvement of Technology

To transform certain new technology to "a commercial technology," it is necessary to improve the technology to fit to users/needs and develop application technology. Established companies which run businesses in various fields may have a

broad information regarding application and market for the astechnology than VB does. Costs for market research and R&D may thus be reduced.

(b) Promotion Effect

If the new product is implemented in the form of software product, then preparation of mass production line may not cost a lot. However, when the new technology constitutes a combination of software with certain hardware, it may require vast amount of money to prepare mass production line and distribution channels. Therefore, VB may expect manufacturing and sales support through existing facilities and sales networks owned by established companies. This is particularly true when VB takes voluminous orders before competitor enter the market. Customers are more likely to purchase the new products from established companies because established companies guarantee a stable supply and warranties.

- partner, it will be a big customer and thus a stable source of income for VB. Because advanced technologies are subject to the trends of the time, VB must continue R&D. Sales to the established companies are a stable source of funds for such R&D.

 2) From Established Companies Point of View and a continue R&D.
- Then what merits can established companies draw from transactions with VB? Apparently they expect such as "new idea for new products" and "specialized technologies that only certain VB may have."

(a) Unique and Advanced Technology as the state of vector desired Some of VB are engaged in R&D in a very advanced fields that sestablished companies can shardly reach. Established

To transform certain new technology to "a commercial

companies may want to use such technologies to distinguish their products from those of competitors, and to add new functions and/or performance to their products through which it attempts to exploit new business.

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- (b) Defacto-Standard Technology It is not rare in the high-tech fields, especially those relating to software, that a technology of a specific VB has been regarded as the defacto standard. In such cases, transaction with the VB is essential because virtually any products not using the VB technology cannot enter the market.
- (c) Demands of Customers and into the bas and one continue of the best of the boundary of Customers and the best of the boundary of the bounda
- (2) Form of Transaction

 The real ability of VB is in its innovative technology.

 The form of transactions between VB and established companies varies as purchasing contact, R&D consignment contract, joint R&D agreement and license agreement. Generally speaking, however, it seems that most cases are such that VB provide technologies and established companies provide funds and mass production technology. This type of transaction involves the following contracts; yet beauty as in its innovative technologies and established companies provide funds and mass production technology. This type of transaction involves the following contracts; yet beauty as in its innovative technology.
- 1) Contracts Relating to Defacto Technology in the case of technology that has been commercialized, the VBs often have good experience in transactions and likely has prepared certain model forms of a purchasing contract and license agreement. As to products which need customization, R&D consignment contract may be executed.

When licensing know-boy-from VB and making contracts

2). Contracts Relating to Advanced Technologies, visioning agreement

or joint R&D agreement will first be concluded for the commercialization of the technology, then a purchasing agreement or license agreement will follow.

Among these contracts, the purchasing contract may not be very different from that generally concluded with ordinary small-sized companies since in most cases it is concluded where the new technology has already been commercialized in the form of hardware (where a software itself is the subject products, the contract should be end-user-license rather than purchasing). The peculiar features of contracts with VBs may be displayed more in license agreements in which the technology itself is treated as products, and in joint R&D and R&D consignment contracts, which are concluded at a very crude development stage of the new technology.

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- 4. Anticipated Risk and Check Points in a Contract and assessed
- (1) Company Research in Advance of Transaction
- 1) Company Credibility

VB are generally small so that it can make quick decisions and run its business and conduct R&D without restrictions. The management, however, is often unstable because of its size and inexperience.

It is necessary, therefore, to conduct a credibility search before not only obtaining a license but especially before making R&D contracts.

2) Assessment of Technologies Owned by the VB face pained toll

When licensing know-how from VB and making contracts regarding joint R&D and/or R&D consignment with VB, the assessment of VB's technologies is essential. This is because investment may not be fully recouped if such technologies are assessed beyond its real value.

This technology assessment is not necessarily easy. These days, however, there is a trend especially in the financial world (and VC industry) to find collateral for investment in VB's proprietary technologies such as patents and copyrights*1. Financial institutions have also started offering assessment

services of VB's technologies as part of VB supporting business*2. These trends give an expectation that properties such as copyrights, patents and utility models that are regarded easier to assess, will be the primary focus when assessing VB's proprietary technology.

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- 1). When a Obtaining 3 License from VBs of or seases a sease if edg ou
- (a) Bankruptcy of WBuses seriousy or to the was bus thouse edit

lost in the course of liquidation process of liquidation be

This happens when the trustee in bankruptcy rejects under the authorization of the court, execution of executory contracts which existed at the time of declaration of bankruptcy. It may put the licensee in a serious situation if the business based on the license has been already promoted.

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and Intellectual Property Licenses in Bankruptcy (Pub L. 100 No. 100-506 § 1, 102 statute 2538, 1988 U.S. Code Cong. & Admin.) was implemented in October of 1988 as an amendment of Bankruptcy Reform Act of 1978 (11 U.S. C. § 365) an According to this amended law, even though a license agreement regarding intellectual properties is nullified as an executory contract in the course of liquidation, the licensee is entitled to choose either to terminate the Agreement and make a claim for damages or to preserve the agreement and the rights of licensee in intellectual property-related agreements are legally as a protected.

VB and the license agreement is governed by the US laws, the rights obtained by the license will be protected to some extent. The amended law, however, may not be applied to a license agreement which is governed by Japanese law. It is advised that such agreement be designed to be governed by US laws to enjoy the benefits of this amended provision.

While the amended law as described above protects licensee's rights while permitting nullification/termination of executory contracts by the trustee in bankruptcy, it is not aimed to prevent nullification itself. If the licensee wishes to prevent such nullification itself, therefore, certain measures must be taken so it will not be deemed as an executory contract. To this end, measures may be taken such as breaking up the license clauses into separate contracts that cover i.e., the grant and payment of royalties separately *3.

In transactions relating to software, the escrow system has been established in the United States which aims to prevent such situation that licensees (usually software users) cannot continue with maintenance and other matters because of bankruptcy of the licensor*4. In this system, licensor or licensee deposits source code of subject software program with an escrow agent before entering into transactions. And in case the licensor goes bankrupt or is merged or acquired, or if any accident should happen to the licensor, the deposited source code will be disclosed to the licensee if prescribed conditions are met.

European VB, therefore, you should consider taking advantage of this escrow system to preserve the rights, even after the bankruptcy of VB, to maintain the software under your control.

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(ii) Measures din Japan at a share hear a saman ya saat adamam ay

In Japan, on the other hand, there is no system to protect licensee's rights under intellectual property license agreements at the time of licensor's bankruptcy. Subject rights given by the license agreement may be disposed of to a third party in the course of liquidation unless the license obtained by the licensee is legally protected through registration with a relevant authority. This is because Art. 59 of Japanese Bankruptcy Act provides that it is the discretion of the trustee in bankruptcy to determine whether the contract be continuously effective or nullified.

either patent, utility model, design, trademark on mask work registration of the license will be an effective measure to preserve obtained rights when the licensor goes bankrupt. Such registration may not be common for normal clicense agreements but should be reconsidered in the case of license from VB.

However, the risk should be recognized in the case of copyright license agreements where there is registration system for assignment but not for license, or where the registration system, life any, does not automatically grant protection as a matter of law. It should be noted that the registration system itself does not exist for a dicense agreement relating to pending patent applications and know-hows a second account of the case of

Eurthermore, even if such registration grants protection against a third party, it needs to be noted that there still remains the possibility that the license agreement be nullified by the trustee in bankruptcy as an executory contract. As a licensee, therefore, it is wise to insert an article into the license agreements which guarantees that the licensee can preserve its rights after the bankruptcy of licensor. This will help draw favorable results from the negotiations with the trustee. While there has been no precedent case in this field, it is worth incorporating such articles since it could be too risky for the licensee to leave his/her rights totally dependent upon the trustee's discretion.*5

(b) Confirmation of the Ownership of the Rights subject to the License: Agreement so that a ready available are not appear, one readily

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rights of the license should be identified. This is because, the subject rights of VB could already be pledged or assignable collateral already set therefor. *60 at 12 days are the subject rights of VB could already be pledged or assignable collateral already set therefor.

are assigned to the creditor until the debtor pays off his/her debt. While this measure may accompany risk of the creditor

reassigning the rights to another party, some reports, state that it is more widely used than establishing a pledge because of its relatively simple procedures and low cost*7.

application cannot be impledge while assignable collateral can be established therefor*8. In this case, both parties execute assignable collateral agreements.

Accordingly, when making license agreements with VB, it will be necessary to check the following: (i) prior to entering into the license, the assignment record of the subject intellectual property (as to copyrights for software program, the record of "transfer due to execution of assignable collateral" can be identified at Software Information Center), and (ii) during the term of the license, that the subject rights are not in pledge or assignable collateral. If licensee fails to check such records, and the rights granted under the license are already established as collateral and owned by a third party, a problem may arise where the licensee cannot assert its rights under the license if the collateral right is executed and the rights are transferred.

2) When VB becomes the Partner of RaDea side work vante visal

conducting R&D with VB is the inability to recoupits investment because of bankruptcy of VB, retirement or headhunting of wakey person (R&D engineer) " and withdrawal from relevant business. Other events may also hinder, at a critical level, R&D activities.

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Those who choose to have VB as a R&D partner are supposed to put more priority on the benefit expected from using VB's proprietary technology than such risk.

At the same time, it seems almost impossible to totally prevent such event if in fact you chose VB as a partner. It is most important for those who have VB as a partner to contain the damage at the minimum stage by checking the progress of R&D and activities of engineers, collecting information and

perceive the symptom of such event at the earliest possible stage. To this end, the following items should be noted:

(a) Article Providing Obligation to Report Any Trouble

or is expected to happen that is likely to impede the execution of joint R&D and/or R&D consignment, the VB must report the fact, irrespective of whoever is responsible for such event, to the other party. This will help identify the trouble as early as possible and to minimize the damage before it goes too far.

(b) Share of Cost and Confirmation of Products Described Cost and Cos

bears the cost, it goes without saying that the contract provides for payment on the supply of the products. However, the VB, because of its financial situation, may demand a start-up fee. In this case, the contract should contain a clause to disperse the risk by making the payment in installments as well as to confirm the results of R&D on each payment.

(c) Cancellation Clause was as a yeolow to be all inspect of

Despite the early expectations, some VB may not be able to develop the planned products because of insufficient technologies and other reasons. It seems, therefore, that the contract should contain an article by which the consignor of R&D can cancel the contract of its own free will.

(d) Ownership of the R&D Product and Its Use

Since it is usually expected that VB wants to preserve

their ownership over the technology resulting from R&D because the technology is a main concern of them, it should be fully considered that the contract guarantee the establish company's right to use such technology in their own business.

As to various warranty clauses, the established companies should recognize that VB are in fact not competent to bear the responsibilities under such clauses even though the contract provides that it bears the entire responsibility.

Spelog 1994, p.14

*7 "Study on Intelleption Property of Plasmoist items;"

5. (Conclusion) the eff is the value in sorthing and evisored the conclusion of effects and evisored the following should be not edited.

While we have discussed the issues to be noted in making contracts with VB; it remains to be seen in Japan how VB will develop in the future under circumstances which are becoming more and more favorable to them at it is true that at this moment, issues that arise as a result of unexpected events happening to VB, are dealt with on a case by case basis since the legal measures against such situations have not been sufficiently established. However, as transactions with VB increase, we hope that the law relating to such transactions will develop and more stable relationships between VB and its business partners will: be Foreated. we wash is doubting odd fro vilgan, and no doeseyng and performance of the state of the medical pay (contracted in the state of In this case, the contract should contain a cinuse to disperse the class by waking the baywent ly installments as well as to [Bibliography] .demanded dose on GSS do tolerest sau multant *1 "Recent Trend of Technology Assessment in Supporting Venture Companies "Intellectual Property Forum, Vol. 25, Spring 1996, $\mathsf{pp.18}_{lpha} \mathsf{27}$ olituegi to esequed stocbour borusio edu goleveb or *2 Such service is provided by Technology Assessment Center under Japan Association for Promoting Industrial Technology which is an extra-departmental body of MITE and other major software distributing companies Tokyo Chamber of Commerce and Industry in cooperation with the Technology Assessment Center has also started this service with lower charge since July of 1996: (NikkeicShinbunge,1996/05,29)on mana a si ventodas riekti *3 License Committee, "License Agreement and Bankruptcy" Intellectual Property Management; Nol. 1846, No. 2, 1996 Sheka *4 See "Study on Escrow System for Computer Software," Software Information: Center, March, 1994. vagauas accirs of sa *5 Masahiko Amemiya, "Patent License Agreement" *6:As to actual cases of financing on intellectual property as collateral, vsee ibid. Intellectual (Property Forum; Vol. 25) Spring 1996, p.24

*7 "Study on Intellectual Property as Financial Item,"

Institute for Intellectual Property, April 1994
*8 1956/09/24 Tokyo District Court, Civil Case Series; Vol. 7,
No.9, p.2593

Puying a Small Technology Company

PATEA SAMITES RUBB. POW OMINICAL PACIFIC LEATED IL OCTORIS, 1995 Institute for Intellectual Property, April 1984 *\$ 1956/09/24 Fokyt District Court, Civil Case Series, Vol. 7, Mo.9, p.2593

A Comparison of Licensing Technology and Buying a Small Technology Company

PAULA SANDERS RUHR DOW CHEMICAL PACIFIC LIMITED 11 OCTOBER, 1996

Basic Assumptions Concerning Small Company

- Relatively small company in terms of capital, number of employees, sales, etc.
- Significant portion of value of Small Company is in its technology
- > Employees are also owners of year a si vectorate ?
- Key technical/business knowledge is possessed by small number of employee/owners

Basic Assumptions Concerning Acquiring Company

Relatively amail company in terms of espital, number of

- Has significantly more assets than Small Company
- Has its own established research and development structure
- > Technology is a key factor in Acquiring Company's success

Key technical/business knowledge is possessed by strell number of employed/owners

Licersing Advantages:

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- Possibis isos igitisi investment
- Less dak of liability for past actions of Small Company
- Greater Hexibility in type of Itemse technology, patent, copyright, trademark, software
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- Essier to disongage
- No need to integrate people, systems into Acquiring Company
- Tess regulatory concerns

And competition Foreign ownership

Licensing Advantages:

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- Possible less initial investment
- Less risk of liability for past actions of Small Company
- Greater flexibility in type of license technology, patent, copyright, trademark, software
- ► Exclusive or non-exclusive
- ► Easier to disengage
- No need to integrate people, systems into Acquiring Company
- Less regulatory concerns

Anti competition Foreign ownership

Licensing Disadvantages:

Lack of knowledge of past of Small Company

Ownership of technology

Infringement lasues

Other liability issues

Positile problems with technology transfer if key amployeer leave Small Company

 Different cost structure and asset base of Small Company

Any warranties or indemnities concerning freedom to practice, validity of patents, efficacy of technology, etc. are limited by the assets of small company

Value of technology may be distorted by differences in cost structure between Small Company and Acquiring Company

Licensing Disadvantages:

Lack of knowledge of past of Small Company

Availability of Key Employees

Significant possibility of competition if key employees leave Small Company

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Possible problems with technology transfer if key employees leave Small Company

Different cost structure and asset been of Small Company

Competition adding to address yet a competition adding to probe the competition and the competition and the competition are the competition to a competition to

Value of technology may be distorted by differences in cost structure between Email Company and Acquiring Company

: :::::: Licensing Disadvantages: ::::

> admplementation of the technology of all years and head

Channels to market

Adaptation of technology to fit available facilities

May need access to key employees

Time to implement may be slowed and here.

For exemple, rights under existing patent

Little technology transfer essistance needed

Licensing Most Advantageous When:

 Technology is reasonably developed and independent of Small Company personnel

For example, rights under existing patent

Adaptation of technology to fit available facilities

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Technology closely related to existing technology of Acquiring Company of the com

Little technology transfer assistance needed

Buying Small Company -- Advantages

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Buying Small Company

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Since technology is awned, no quantion of compatition from Small Company or subsequent floansess

Buying Small Company -- Advantages

Due Diligence

Provides access to information which permits better determination of value and risks

► Competition

Since technology is owned, no question of competition from Small Company or subsequent licensees

■ Buying Small Company → Advantages

Keeping the Small Company

Can continue to operate as a small company

Keep key employees (at least for a certain minimum period)

Keep existing management in place

Maintain production facilities, product stream, distribution channels, existing customer base, distributors, etc.

Buying Small Company - Disadvantages

Kacyling the Small Company

Liability for past activities of Small Company

Larger initial investment (being manifeld)

Read ad Instrugenest in place

More time to negotiate acquisition of distribution of the control of

Buying Small Company -- Disadvantages

> Difficulties in merging two separate entities

Manufacturing, R&D operations or other functions may have differing standards

Cultures of two entities may have difficulty in combining

Changes in key personnel and/or key management

Disruption caused by sale/purchase and resulting uncertainty

Buying Small Company is Most Advantageous When:

 Technology is primarily know-how or linked to key employees of Small Company

Menedecting, M&D operations or other American car have differed standards

 Value of Technology is likely to be impacted by various issues subject to investigation in due diligence

> Changes in key personnel and/or key manacement

High risk of competition from licensor (including employees)

License or Buy?

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Additional factors

Type of technology

For example, software, chemical, pharmaceutical

Regulatory issues

Competition

Foreign ownership

Export control issues

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Buying Small Company

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Due Diligence

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Due Diligence -- What to Investigate

Ownership of technology

Secrecy, joint development or license agreements with third parties

Is ownership of technology clear?

Are confidentiality obligations owed to third parties?

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Are rights assignable?

Has any third party (including government) financed any research?

Have Intellectual Property rights been appropriately recorded?

Due Diligence -- What to investigate

Qweering of technology

- Patent rights
- Secrety, joint development or france agreements
 - Prosecution history/limitations

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- Practice followed in documenting inventions
 - Existing art searches

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> Have intellectual Property Again boom appropriately recorded?

Due Diligence --- What to investigate

- Internal protection of Know-How
- Employee agreements
 - Confidentiality and non-compete clauses
 - Security provisions relating to intellectual property

Due Diligence -- What to investigate

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- Other areas not directly impacting intellectual property
 - Finance, environmental, human resources, contracts

Society provisions roleting to intellectial property

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(P) Date.

A Study on Translation Cost for Foreign Application

CONCLUSION

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Sumitomo Chemical Co., Ltd.

TYPE OF TECHNOLOGY AND LEVEL OF SELDISER DEVELOPMENT: TOTOM GOODE Nobutoski Mori Nippon Talegraph and Telophane Corp. Yoshi-hiro Kimachi

HOW TECHNOLOGY FITS INTO ACQUIRING COMPANY

(5) Keywords:

COMPATIBILITY OF SMALL COMPANY AND translation ACQUIRING COMPANY of ability of the control of the

STATUS OF SMALL COMPANYMOLES OF STATUS OF SMALL COMPANYMOLES (6)

Japan Patent Law, Rules of Practice, Article 2; W.S. Patent neagoned (CLSTATUS OF ACQUIRING COMPANY) walled (Wall Patent Coavestips. Articles 14, 65, 83; Escopess Patest Convertion, Emplementing Regulations, Rule 38(4)

(A) Abstract:

At the 26th International Congress in Sar Francisco, Mr. S. F. Berrier-a member of the 6.3. Group-presented a report wherein the main point is the fact that costs required by foreign applicants for patient application and maintécance are so auch increasing as to become excessive burden on the applicants, therefore, reduction of such costs is needed. Since it is thought by we that we in the Papan Group are facing the exact same problem, for this report we desided to lavestigate the carrent situation concerning costs for foreign patent applications, and maintenance from the standpoint of Japanese applicants.

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(1) Title:

A Study on Translation Cost for Foreign Application

(2) Date:

October 1996 (The 27th International Congress in Hiroshima)

(3) Source:

Source: PIPA
 Group: Japan

3) Committee: #3

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(6) Statutory Provisions:

Japan Patent Law, Rules of Practice, Article 2; U.S. Patent Law, Rules of Practice \$1.52, U.S. Patent Law \$119, European Patent Convention, Articles 14, 65, 88; European Patent Convention, Implementing Regulations, Rule 38(4)

(7) Abstract:

At the 26th International Congress in San Francisco, Mr. E. F. Berrier—a member of the U.S. Group—presented a report wherein the main point is the fact that costs required by foreign applicants for patent application and maintenance are so much increasing as to become excessive burden on the applicants, therefore, reduction of such costs is needed. Since it is thought by us that we in the Japan Group are facing the exact same problem, for this report we decided to investigate the current situation concerning costs for foreign patent applications and maintenance from the standpoint of Japanese applicants.

Of foreign patent application costs, the 3rd Committee is in charge of issues concerning translation fees. First, we

investigated the current situation of the translation processes employed by Japanese applicants and fee payments therefor. As a result, we found that translation fees required for U.S. applications by Japanese applicants are roughly equivalent to translation fees required for Japanese applications by U.S. applicants, and that translation fees required for EPC applications were roughly equivalent for U.S. and Japanese applicants. However, these monetary amounts are fees paid out as part of a standardized process, and there is some leeway to reduce these fees as a result of company efforts.

We herein introduce some concrete proposals to reduce such fees. Also, there are some cases where a reduction in translation fees would result from a system reform or a relaxation of operational practices in the countries where application is being filed. We also report on some desires and suggestions regarding such legal systemic changes.

For Japanese applicants, the language barrier which they face when an application is filed in the U.S. and in Europe is a greater problem than it is for U.S. applicants. For example, we do not have sufficient ability to check texts translated into European languages per se. We will also discuss some problems peculiar to Japanese applicants.

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The member firms of the PIPA Japan Group, who may represent Japanese companies, are facing the need for globalization of business activities to respond to the overseas shift of production, advances in data communication methods, deregulation trends, a steadily high exchange rate of yen, and other contemporary issues. Accompanying those, globalization of intellectual property rights related activities is also needed.

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In this environment, the report presented by Mr. B. F. Berrier of the U.S. Group at last year's congress was worthy of attention. His report comprised an analysis of all of the costs, from application to rights maintenance, that a U.S. applicant faces when a patent application is filed in Japan or to the European Patent Office (EPO). Mr. Berrier pointed out that, currently, these costs are much too high, and that in order to rationally protect a company's developmental technologies from being imitated and infringed, there is a need to reduce patent costs.

The members of the Japan Group are substantially facing the same problems as U.S. Group members. For instance, Japan and America are ranked in the opponent country as the leading countries in the list of nationalities of non-resident applicant. When we see from the standpoint of the country receiving such applications, the largest number of foreign applicants in Japan are Americans, and the greatest number of application cases filed in the United States by foreign applicants are filed by Japanese applicants. Further, the largest and the next applicants in application number to the EPO from countries outside that region are the U.S. and Japan,

respectively. Moreover, the sum of these two countries account for nearly half of all of the sapplications filed to the EPO. This shows how important expenses are for filing in the United States Patent and Trademark Office and in the EPO by Japanese applicants. For reference, Table 1 shows filing statistics in the years 1991estrus Vidrana casa gantisolians

The 3rd Committee investigated the current amounts of expenses borne by Japanese applicants for translations, expenses which account for a large portion of patent costs. We will report herein our survey results, as well as present specific ideas and opinions concerning such things as ways an applicant can reduce costs through his or her own efforts, and what kinds of legal systemic or operational reforms are desired within countries to which applications are filed contractors but a seritasb esca no crocor octa

Since the language barrier facing Japanese applicants within ERC (European Patent Convention) nations is considerably larger than that faced by U.S. applicants, in some respects we have a greater desire to find ways of rationalizing issues regarding translation...

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. estabblicação especielo The ratio between foreign applications and domestic applications differs according to which nation a patent applicant belongs. For Asian applicants such as Japanese and Koreans, the ratio of foreign applications to domestic applications is small, while this ratio is reversed in the major countries of Europe and the U.S. For example, although this ratio is roughly 0.4 for Japanese and Koreans, this ratio for U.S. and European applicants is around 4, namely there is a digit difference one cause of this is, substantially, that Japanese applicants # must work to maintain domestic applications in response to competition within Japan, and thus they have little room for investing in foreign applications. Considering a patent application to EPC, another cause of this is the fact that Japanese and most other Asians can not use their native languages in performing filing and examination-related procedure while US applicants can douit in the native language, English. This condition may be felt as additional burden and invisible expense for Japanese when she files a foreign application.

The report presented by Mr. Berrier at the PIPA International Congress held in San Francisco in October 1995 (below, "the Berrier Report") contained a study on foreign patent application costs from the standpoint of a U.S. applicant; it was pointed out therein that the costs required for European patent acquisition was especially high. In the present report, we present the results and the analysis of a questionnaire-based survey of 24 of the PIPA Japan Group member companies regarding translation fees which constitute a major portion of the costs related to foreign patent

Japanese Patent Office Annual Report, Vols. 46, 47, 48 (FY 1993, FY 1994, FY 1995)

Japanese Patent Office Annual Report, Vol. 47 (FY 1994). pp. 322-323

[&]quot;Global Patent Costs Must Be Reduced", proc. 26th International Congress, PIPA (1995), pp. 369-388

applications—from the standpoint of a Japanese applicant. We also analyze these results In this questionnaire, the object of survey is the patent application was being filed in EPC countries and the United States.

In general, when a Japanese entity files a patent application in Europe or the United States, in America he files a direct application using the Paris convention, while in the major countries of Europe, it is common to file an application following the EPC route. Therefore, in this report, we made a study regarding translations with the assumption that these two noted routes were used.

Tables 2-1 and 2-2 show the questionnaire results regarding representative translation unit costs. Table 2-1 shows the case where Japanese specification is translated into English on the assumption that US application and EPC application is to be made with the said English specification. Table 2-2 shows the case where registration procedure is took place at individual member countries after patent approval is given by EPO and then the English specification is translated into European language other than English (official language of member country). However, since the questionnaire was designed for a small number of the population, which was 24 firms, response in regard of some minority languages was small in number. Therefore, there is a possibility that such numbers shown in the tables may not represent general trends of Japan.

Table 2-18 shows that, when Japanese is to be translated anto English; the unit price is quite different depending on where the translation is to be contracted out to. Especially it is notable that requesting a specifications translation to a Japanese patent law firm is relatively expensive. Fig. 1 shows the results of the question to the surveyed companies in regard to where (what type of organization) they request translations. We learned that even though it is relatively more expensive to do so many Japanese companies ask. Japanese patent law firms for translations. On the other hand, itomis thought that the number of companies who ask Japanese translation company or use in-house translation are increasing year by years It goes without saying that utilizing such methods is one way of decreasing translation costs only a few companies are requesting stranslations to a BUSS patent law firms for to USS translation companies. Since there is no major difference unit price for translations between U.S. and Japanese translation companies, miteris thought that Japanese translation companies are being selected for various practical reasons, such as the ease of arranging deadline and the ease of work-related communication.

Below, we will discuss the translation of specifications for those cases where registration is to be made at various. European patent offices after a patent has been approved by the EPO; i.e., the translation of English into a European language other than English. Questionnaire results regarding where such translations are requested are shown in Fig. 2. In this questionnaire, plural responses were permitted. We can see from Fig. 2 that in most

cases, Japanese companies use local patent law firm which handled the EPC application procedures, or patent law firm in the specific designated country in consequence of their decision. When a comparison is made between translations into one of four languages other than English-German, French, Italian, or Dutch-and translations into a EPC member nation's official language that is other than these four languages, there were more companies who opted in the latter case to use local (in that country) offices or the office that handled the EPC application. Also, although their numbers were few, there were some companies which had requested translations to a U.S. translation company.

Fig. 1-2 shows the questionnaire results regarding translation unit prices for translations of English language specifications into a European language other than English. These translation fees are unit prices for translations requested to a Japanese or U.S. translation company. Compared with the cost of translation from Japanese into English, translating from English into some languages, including Danish and Portuguese was relatively somewhat more expensive. Conversely, translation into Italian and Spanish, etc., were relatively less expensive. We also learned that there is a broad range of unit prices for each specific European language: the lowest were in the \text{\text{\$40-\text{\$\text{\$40}\$}} and translation, there is a possibility that translation costs can be significantly reduced.

We also performed a questionnaire based study regarding typing fees for specifications, one of the costs related to translation. The results are shown in Table 1-3. Of the 24 companies surveyed, 15 of the companies had paid such typing fees to a Japanese patent law firm, and seven (7) companies had paid such fees to an foreign patent law firm. Just as with translation unit prices, there was also a broad range of typing unit costs; in particular, a comparison shows that Japanese patent law firms charge roughly two times the typing unit price charged by foreign patent law firms. In this nowadays of popularization of personal computers, word processors and other hardware and software, the fact that post-translation typing out of specifications still takes place may seem a remnant of a distant age. It is true that typing costs do substantially raise the price of translation unit costs.

Below we show the results of a computation of translation fees for a standard specification, based on the results discussed above. We defined "standard specification" to be equivalent to its definition in the Berrier Report—i.e., an English-language translation consisting of 20 pages, 10 claims and 2 drawings. In addition, we have considered a foreign-language specification as containing 280 words per page, plus bibliographic page containing roughly 400 words, consequently the document to be translated for filing thus contains around 6,000 words (the number of vocabulary words after translation). The translations fees for an application for filing of this type are as shown in Table 2. The typing costs shown in Table

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1-3 dare not sincluded in the Computation of the translation fees shown in Table 3.0 340 886 8868 886 886 8868

Table 3-1 shows examples of computations of specification translation fees as based on representative translation unit prices of various translation facilities; here, it is assumed that the specification is for a U.S. application or that it is an English language specification for an EPC application. Since there is a broad variation in translation unit prices according to where the translation is requested, these translation fees show considerable difference. We also learned that of the translation costs incurred by a Japanese applicant, the translation fees for the case where a translation is requested to a Japanese patent law firm are roughly equivalent to the translation fees required for a Japanese application as noted in the Berrier Report.

For those cases where a specification translation is performed as a requirement for moving the specification from the EPO post-patent approval stage to the filing stage within each country stage, translation fees were computed for the same three application patterns described in the Berrier Report. The results are shown in Table 3-2. Designated countries are shown in parenthesis () using the abbreviation for the applied country. As number of filing countries increases, number of languages to be translated into also increases in such a manner like 4, 5, up to 10 languages. The total costs of translation increases accordingly. It is learned that if one is to obtain rights in all of the EPC member nations, translation costs alone will reach US\$19,745.

Fig. 3 is a compendium of the above-described results; it is comparable to Fig. 5 of the Berrier Report in a complete was such as

The questionnaire results regarding the general consensus regarding translation fees, which are described in the final part of this report, are shown in Fig. 4. Of the 22 responding companies, only seven (7) companies responded that they felt these costs were reasonable, while around two-thirds (14 companies) responded that they felt that translation fees were too high for translations into English or again into another European language. Another distinctive feature of these results is the fact that the number of companies responding that Japanese to English translation costs were high was greater than the number of companies responding that English to another European language costs were high.

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§3 Translation Cost-Reduction Measures The Cost-Reduction Measures

The following is a discussion of various methods that are thought to be effective in reducing translation costs, which become a problem for a Japanese applicant when he wishes to make a foreign application (U.S. and/or EPC applications). Concretely, we will introduce the stranslation cost-reduction measures that companies have actually found to be effective as reported in responses to our questionnaires.

Please refer to Table 3 for the application country abbreviations of EPC member nations as well as specification translation requirements and the languages of translation.

22 companies responded to our questionnaire with respect to their consciousness to the cost. 14 companies out of 22 felt that translation cost from Japanese into English or another European language is too expensive. (In Figure 4, total number of response is 25.) 24 companies responded to the question on cost-reduction measures. 10 of 24 companies responded that they were implementing, in certain forms, measures to reduce translation costs already. When the number of companies planning the implementation of cost-reduction plans are additionally counted, then the new total is 16 of 24 companies. Thus one can see that there is a high degree of consciousness among companies regarding the problem of translation costs. In contrast, 8 of the 24 companies responded that they had no intention of creating or implementing cost-reduction policies; more than half of them fear that a decline in the quality of translation would result by doing so.

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Perform Translations at Relatively Cheapers Translation Facilities (Measure 1) alamidation at the same as a section of the same of the same as a section of the same as a section of the same at the same as a section of the same at the

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As previously mentioned in §2 above, in general, Japanese patent law firms charge the highest prices for the preparation of English-language specifications. Then follow, in order from higher to lower, Japanese translation companies, U.S. translation companies, and U.S. patent law firms. However, in terms of translation quality, it is thought that it is safest to request translations to patent law firms, which should have a good understanding of inventions. Therefore, upon implementing this Measure 1, one must consider carefully the balance between cost and quality.

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In-House Translations (Measure 2) Asia Logro (V) have wind assimble to

When we see the costs only from bill/payment basis, in-house translation, preparation of English specification within the own company, is apparently the most effective way to reduce the costs. The questionnaire results show that there are some companies actually prepare English specification by themselves. However, although no actual payment to outside facilities is observed, it is necessary to have someone with sufficient translation ability within the company, and to have increased work-load within the company for this.

dispension one dedy aleminar decisar to achieve out a ringelied collections Utilize English-language Specifications of Related Applications (Measure 3) Ann of pension of cedim ansolitors opension a red unider dillections of the related forms.

It is possible to reduce translation costs by referring to foreign application specifications or related documentation that have been created by one's own company in the past. In this way, the quotation, borrowing, and full-scale importation of text of already translated documentation can be used. It is thought that especially

when the translated text of priority certificates is prepared within the EPC application process; it is highly effective to utilize common portions in the EPC application itself. ARTOR OF THE SECOND SECTIONS OF A PERSON OF A SECTION OF A

Make the Specification Brief and Simple (Measure 4) and the single final era burgakasi yabalegmoe shi Bulliy ayrangasi Lelotiin 90% kali Bo

By making specifications as brief and simple as possible, it is possible to hold down the volume of translation required, and thereby to reduce translation costs. By trying to create the original Japanese language text as easily translatable as possible, ito can be performed more effectively, especially in-house translationscase, for example line of dealth at added by a out of the

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Setting Aside Enough Time for Translation Requests (Measure 5)

By carefully managing one's own schedule, one should create a translation schedule that allows plenty of time for translation in order not to require special "rush" translation fees This is an effective way to reduce total translation costs after all when one requests foreign-language translations of specifications in consequences of section with a village of the section of the first of the odi.

Utilize Machine Translations (Measure 6)

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The use of machine translations is another way of reducing translation costs. Out of the 24 companies responding a to the questionnaire, four (4) companies stated that they have used machine translations in the past. However, at the current level of technology, still there is a problem concerning the reliability of such translations; it appears that machine language translations are not at levels yet where they can be used sufficiently. Nevertheless, 10 of the 24 companies state that development of fully usable software in this field will be obtained in future, and they will positively consider the use of the machine-translation at that time.

"On the other hand," reliability of English to another "European language machine translations has greater reliability than Japanese to English translations has. Perhaps this is due to the similarity in linguistic structure between English and other European languages. Several European patent law firms are already using machine translations in this object, and it appears that such translations can be performed more cheaply than manual translations of rein each socies dispersion of editers (que calls ad evade

Strict Selection of Designated Countries for EPC Application -(Measure 7) is figure (see Eq.) and by Let (8 GO), χ is its 3 -and 3 decreases. ovodo bedinasees exerta ca crient inimia yoda enciasimaasi,

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As for the costs related to the filing of translated document to each designated country following the approval of a patent by the EPC, by more carefully selecting the designated countries for the EPC patent, one can thereby hold down translation costs.

Filing Translated Document of Priority Certificates & Only After a Patent Grant becomes Foreseeable (Measure 208) of House Control of the Con

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In the case of EPC applications, the filing of document of the basic application on which priority is claimed, translated into one of the EPC official languages which is compulsory requested for priority certificates. However, since last year, it is now permissible to file this translated document after the communication under Rule 51(4) regarding the patent grant (although, this is possible only until the time of the response for Rule 51(6)). Therefore, rather than filing this documentation soon after the application is filed, by waiting until it appears that a patent grant becomes certain, one can cut useless translation costs.

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Japanese applicant can use PCT route for EPC application as well as US application. By using PCT applications, decisions regarding the filing countries can be postponed by a maximum of 30 months from the date of the claiming priority. This makes possible more appropriate selection referring to information obtained in the meantime.

It is our opinion that, of the above-described strategies, Measure 1 appears to be the most realistic and efficient. Especially as it is considered that the translation fees charged by Japanese patent law firms are, in general, relatively higher than those of other countries, by searching for a less expensive translation facility such as a translation company, etc., one can expect a substantial reduction of translation costs. However, upon introducing translation cost-cutting measures, it is necessary to sufficiently consider whether such policies might lead to a reduction of translation quality as well.

a.This concludes our study of strategies for reducing aftranslation costs as seen from the standpoint of a Japanese applicants. Nevertheless; some of these cost-cutting strategies can also be applied to applications a from the United States. For example, the issue of reducing costs for translated document filing at the time of EPC patent grants is one shared in common between Japan and the United States; therefore, it goes without saying that Measure 7 above is also applicable for applications from the United States; And for applications to Japan from America, as stated in Measure 1, there is a difference in costs according to what type of translation facility one selects. Thus, English-to-Japanese translations show similar trends to those described above. as stated above, since it is thought that in terms of quality, epatent law firm translations can be considered to the most reliable (however, one must note that some patent law firms subcontract their 280 catent, one can thursby but dissertantlation costs.

assigned translations to translation companies), then it is important to consider both aspects—cost and quality—upon making a determination. Also, making specifications as brief and simple as possible (Measure 4), and ensuring that there is enough time for a translation when one makes a request (Measure 5), can also be applied as translation cost-reduction measures upon making an application to Japan from the United States.

§4. Proposals Regarding Systemic Changes to Reduce Translation Costs Proposals Regarding Systemic Changes to Reduce Translation

In this section, we will focus on EPC, and present the results of our study concerning the possibility of creating a system whereby costs can be reduced for two areas: 1) the filing of translated document to designated countries at the time of a patent granting, and 2) the filing of translated document for priority certificates. We also used a questionnaire for this study to collect opinions regarding the above-listed two items; the responses were then referred to in our investigation.

As for 1) the filing of translated document to designated countries at the time of a patent granting, this is a stipulation of EPC Article 65. According to this stipulation, member countries can demand a translation of specifications for which a patent is intended to be granted. Of the 18 EPC member nations, with the exception of Luxembourg and Monaco, 16 countries require the filing of such translations. Therefore, if one designates all of the member countries, there is a need for translations in 10 languages other than the EPC procedural language (in most cases, English for applications from Japan). The following Proposals 1-6 are systemic reform proposals intending to reduce costs related to the filing of translated documentation to designated countries at the time of a patent granting.

Proposal 1: Complete abolishment of translation of lings to each designated country.

Proposal 2: Filing translations in only the official EPC languages—i.e., German, English, and French.

Proposal 3: Translating only claims into the languages of meeach designated country.

Proposal 4: Filing translations only when rights are exercised.

Proposal 5: Filing translations only when a demand is made by a third party.

Proposal 6: Establishing public translation facilities within the EPO (to provide translations at cheaper rates than those charged by commercial-base translation facilities).

Actually, however, Proposal 1 is problematic in that it contradicts the concept that a patent right is an exclusive right granted as the compensation for the disclosure of an invention. Also, Proposals 4 and 5 involve some practical problems; for

example, to what organization or entity are such translations to be filed to, etc.

The most practical are Proposals 2 and 3, or a combination of Proposals 2 and 3. When we use the combination of 2 and 3, for example of application into a country whose official language is not English, German, or France, the applicant could file only a translation of the claim in her official language at the time of registration, while full text translation in one of the above EPC official procedure languages (in most cases, English for application from Japan) was filed. As for Proposal 3, since many member countries already grant so-called compensatory claim rights based on the filing of translated claims, there would be little sense of incongruity if such a proposal will be adopted.

However, these types of systemic reforms are issues to be dealt with by each EPC member nation. Most countries out of EPC, including Japan and the United States, require a translation into the official language of own country, if not at the time of application, then ultimately at some point during the process. It is feared that a request of such a proposal alone will be rejected, due to the fact that, in order to maintain their balance with the other countries. Member nations would not adopt this proposal unless there is similar concessions at the countries out of EPC.

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As for 2) the filing of translated document for priority certificates, this is a stipulation of EPC Article 88 and Rule 38(4). Upon claiming priority rights, if the application used as the basis of those priority rights is not in an official EPC language, then the application that will become the basis for such rights must be translated into an official EPC language, and filed within the demanded time period (at the latest, this can be delayed until the response date stipulated in Rule 51(6)). However, in the case where the EPC application is a complete translation of the application that will become the basis for priority rights, it stated in the Rule that if such a fact is declared, then there is no need to file a translation. Considering EPC applications from it often happens that Japan, during the EPC application, since there are changes made from the original application, or that a combined priority will be claimed, in many cases translated document is actually filed for a priority certificate. Further, the filing of translated documentation for these priority certificates is generally not a requirement for Americans, since English is the official language of the United States as well as an official EPC language; for Japanese applicants, however, this is an additional burden dilw skilligosi noissiana o bildug painisidedsä Noore good reter beinger is eroldmicable obt

The following Proposals 1-3 are systemic reform proposals intending to reduce costs related to the filing of translated document for priority certificates:

Proposal 1: Complete abolishment of translation filings.

Proposal 2: Filing translations only when it is required by the EPO

as necessary for examination procedure. The land was in the proposal 3: Filing translations only when trights are exercised by the

Filing translated document for priority rights certificates entails different problems from those related to the above-discussed filing translated document to designated countries at the time of patent granting. This is not a issue concerning the legal system of each country, but rather it is an EPC issue. We believe that of the above-listed proposals, Proposal 2 is substantially fair and realistic. There has been some news concerning recent studies by the EPO regarding the reduction of EPC application-related costs; we strongly desire that the reform noted in Proposal 2 above be adopted.

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§ Conclusion a per filtre free militar to blassp. Additionary at a factorism

In our investigation of the themes discussed herein we first took the route from Mr. Berrier's report, and assumed with exase of standard procedures for specifications of a standard length filed by Japanese applicants when cancapplication is filed in the United States or the EPC. We withen addiculated the translation costs required for this assumption Our results show that the translation costs for a filings to the EPO or to each tother strespective countries are roughly the same for Dapanese and Was. Macitizens. However, sing these calculations, additions have almost been made for those deparate (costs or equired for inditranslations) of papplication specifications that is the basis for priority right claims if there is. Noting that the costs coincithese cases will vary on a case-bycase basis, such computations were not made, especially considering that they were also not included in Mr. Berrier's reported on without Neverthelessynthis equivalency in costs borner by Japanese and HU.S. applicants is apparently true. To make a careal comparison, we believe that it is necessary to also consider the peculiar problems for Japanese applicants as a described just below. Last the box of about the

Japan are also, in most cases, applied for in the United States as well. Therefore, in either case, translations into English are required as part of a company's normal procedures.

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- (2) English is used in most cases as the procedural language of the EPC.
- (3) Most translations into other European languages are translations from text that has already been translated into English. In most cases, direct translation is not made from the Japanese into these other European languages.

In other words, a consideration of actual conditions leads to the conclusion that costs for EPC applications are not substantially the same for Japanese and U.S. applicants, considering the fact that initial English-language translation costs must be added to cost calculations for EPC applications by Japanese applicants.

However, we believe that even with such calculations, there is sufficient grounds for the discussion on an equal basis for the problems faced in common by U.S. and Japanese applicants alike regarding costs for EPC applications as well as applications in each other's respective countries.

Further, the above noted calculations are for "standard procedures" related to translations. In reality, we believe that the majority of applications fall into this pattern. In parallel, many applicants are seriously studying various cost-reduction measures, and many are already implementing such measures. In terms of actual costs, the careful selection of the translation route is the most effective. Through the responses to our questionnaire, we obtained this proposal as well as much other valuable information. In most cases, there is a need to combine methods of preventing a reduction in translation quality with cost-cutting strategies. We also received valuable opinions concerning this matter.

In terms of EPC application related costs reven with to the abovedescribed calculated amounts alone, we can already see that such costs constitute assubstantial burden for Japanese applicants. In actual practice, there care many cases where separate translations are required as a during priority aright sclaim a procedures and investigatory oprocedures. Japanese applicants are already pointing out to the increased need to file applications in Southeast Asian nations, and they are questioning the efficiency of investments in EPC applications wilf the situation continues and in its current state. there is a considerable possibility that there will be a reduction in EPC applications from Japan. In terms of cost reduction, there are limits to what the applicant alone can do. We strongly hope the improvement of legal system and practice in consideration of patent costs to be borne by the applicants. We would like to request the EPC authorities and member mations to study the adoption of the proposals made by Japanese applicants that have been stated in this report. We believe that many of these proposals have sufficient worth to be mutually studied by both Japan and the United States, who are the major users of EPC system. However, we have a fear that the convenience for applicants outside EPC might aslead to disadvantage to EPC member countries. We would like to have comments or views on our proposals from the US applicants with respect to reality, validity or preference or alternative to the proposals. sil) la cybingral familianoro sil en asem deca el Useo di Maritani (6).

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Table 1: Filing Statistics for U.S., Japan, and EPC patent application (1991-1993) and a statistics for U.S., Japan, and EPC patent application (1991-1993) and a statistics for U.S., Japan, and EPC patent application (1991-1993) and a statistics for U.S., Japan, and EPC patent application (1991-1993) and the statistics for U.S., Japan, and EPC patent application (1991-1993) and the statistics for U.S., Japan, and EPC patent application (1991-1993) and the statistics for U.S., Japan, and EPC patent application (1991-1993) and the statistics for U.S., Japan, and EPC patent application (1991-1993) and the statistics for U.S., Japan, and EPC patent application (1991-1993) and the statistics for U.S., Japan, and EPC patent application (1991-1993) and the statistics for U.S., and U.

(42 paracquo svibsoffe as yabban zeimaquoe le reducall) (41 U.S. Patent Application Filings

Year	All application	by U.S.	Applicants	by Japanese	Applicants
. 1991	177,388	a straining franchis agency	+167 C - 1	wasi 1/38,4609	
1992	187,291	94,017	(50.20%)	40,267	(21.50%)
1993	191,400	102,245	(53.42%)	36,650	(19.15%)

1-2 Japan Patent Application Filings

Year	All application	by Japanese Applicants	by U.S. Applicants
1991	369,396	335,933 (90.94%)	0890209743 (5.62%)
1992	384,456	338,107 (87.90%)	(5.81%)
1993	380,035	332,460 (87.48%)	· · · · · · · · · · · · · · · · · · ·

U.S. Parrel Les mon

1-3 EPC Patent Application Filings

I-3 EPC Pat	<u>cent Application Fi</u>	lings			<u> </u>
Year	All application	by U.S. App	licants	by Japa	nese Applicants
1991	1860 Basil 26,644	5,995 (22	!∆50 %)¤∃	4	,840 (18.17%)
# 1 992	100 2007 N 56,966 W	16,682 (29	.81%)	10 in Table	, 285 (18.06%)
1993	42,001	9,691 (23	.07%)	9	,593 (22.84%)
	80, 200		(5)	· · · · · · · · · · · · · · · · · · ·	Vianos Dien
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	\$ 45 mg	88718	<u>.</u>	3.	inanya refi as
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	#####	0.5 (1.50)	12.1	d.	priesti or
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	0.4	N 0 - 0 1.			danci' es

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1 1 6012-08:	1 9080		Postigo Pacar Law Plan

Table 2: Representative Translation Unit Costs (Automorphism Costs) (Number of companies making an effective response: 24)

2-1 Japanese to En	glish Translations	HOW BUILDING	agitentages : 14	
	Requested Entity	Average Unit Price (¥/word)	Range in Unit Price Between Translating Entities (¥/word)	Number of Cos. Responding
	Japanese Patent Law Firm	4 8	3 0 ~ 7.0	2 1
	Japanese Translation Cos.	3 3	25~40	1 2
	U.S. Patent Law Firm	18	*****	1
Japanese to English	U.S. Translation Cos.	3.0	*****	2
	In-Company (1977)	*****	******	8
	Others (European Trans. Cos.)	*****	() () (********************************	110

*******Unknown or diffiicult to compute

*****Plural Response Counted

2-2 English to Other European Language Translations

English to Other	European A	ttorney Office	U.S. Trans. Cos.	Number of Cos.
European Languages	Ave. Trans. Unit Price (¥/word)	Range of Trans. Unit Price (¥/word)	Examples of Trans. Unit Prices (¥/word)	
to Germany	.3 .0.	2.0~4.9	2.8	
to French	3 2	24~35	2 8	22
to Italian	2 3	17~35	****	2 2
to Ducth		2 2 ~ 5.4	****	
to Spanish	2 6	****	2 8	
to Portuguese	5 3	41~64	****	
to Swedish	4 3	29~67	****	2 0
to Danish	5 9	37~80	****	20
to Greek	3 0	1 4 ~ 4 0	****	
to Finnish	3 5	20~57	4 0	

*****No response acquired

2-3 Typing Costs

	Number of Cos. Responding	Ave. Typing Unit Price (¥/page)	Range of Unit Price (¥/page)
Japanese Patent Law Firm	1 5	2050	800-5000
Foreign Patent Law Firm	7	1 2 0 0	580-2100

Table 3: Examples of Translation Costs actinizated bas astriaged reduction O'Et : A sidal

3-1. Translation Costs of Specifications for U.S. Applications (Trans.: Japanese to English)

Trans. Entity	Representative Trans. Unit Price (¥/word)	Trânslatio	on Cost	Berrier Report ^[*1] (US\$)
Japanese Patent Law Firm	4.8	288,000	2, 618	United Kings
Japanese Trans. Cost	3 3	198,000	1, 800	2O.O.O
U.S. Patent Law Firm	18	108,000	9 8 2	3 y 0 0 0
U.S. Trans. Cos.	3,0,2	180,000	1, 636	Netherlands

^[*1]Cases where a U.S. applicant applies to Japan (translation company not specified)

Comment Particle, Italian

3-2 Translation Costs of Specifications within Each Stage of the EPC Process (Trans.: English to other European Languages)

(40)

र्माण्ड्राज्ये

	Application Patterns dubbee2	Trans. Languages	Representative Trans. Unit Price (¥/word)	Trans. Cost (¥) (Trans. Cost in US\$ ^[*2])	Berrier R	eport(US\$)
(A)	Application to 5 Countries (UK,DE,FR,IT,NL)	German French Italian Dutch	3 0 3 2 2 3 3 1	696,000 (6,327)	aisg2	, 043
(B)	Application to Original 10 High B Countries ((A)+AT,BE,CH,LU,SE)	German French Italian Dutch Swedish	3 0 3 2 2 3 3 1 4 3	954,000		193
	Aritherit	German French Italian Dutch	3 0 3 2 2 3 3 1		besin/S	
(C)	All EPC Member Coountries ((B)+LI,DK,ES,GR,IE,MC,PT,FI)	Swedish Danish Spanish Greek Portuguese Finnish	4 3 5 9 2 6 3 0 5 3 3 5	2, 172, 000 (19, 745)	15, 5	3 4 3 ^{[*3}]

^[*2] At the assumed exchange rate \$110 = U.S.\$1

^[*2] At the assumed exchange rate ¥110 = U.S.\$ 1

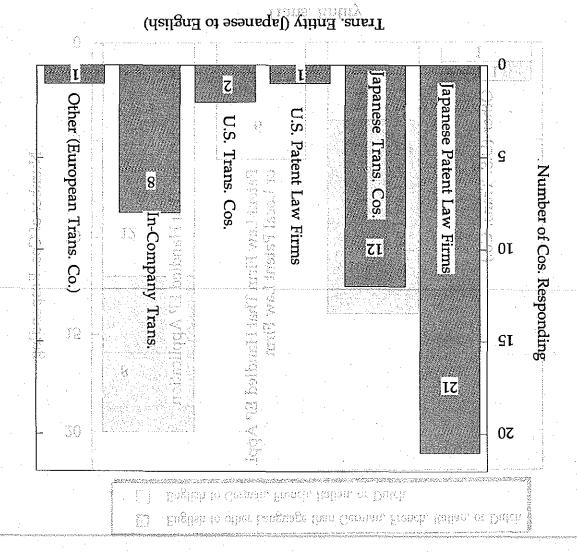
^[*3]Does not include FI.

Table 4: EPC Member Countries and Translation Languages, etc. The adaptional of entail

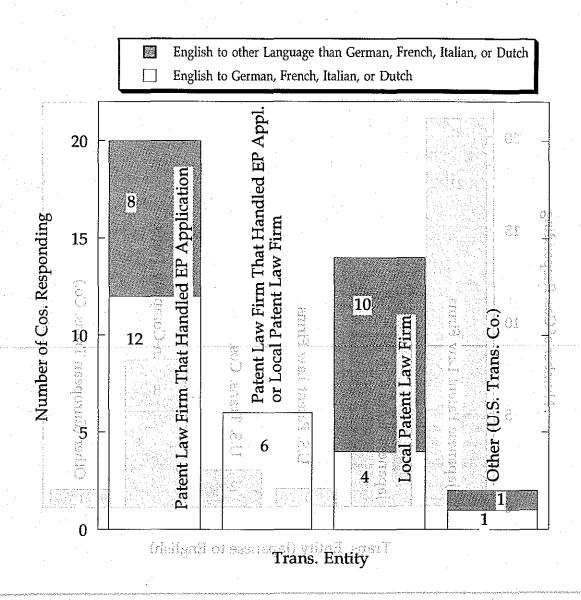
produce secure				Member	Obligatory Submission of Specifications Trans	
The state of the s	- 1	Member Co	ountries	Country Abbreviation	O: Obligatory X: Not Obligatory	Tent Language(s) of Trans. bow/\(\forall \) only half
:		United King	gdom	UK	000 000	English Wall to be Succeeded.
		Germany		DE	0	German
	ं	France		FR	Ö-	French var money 2.3
		Italy		iT .	77 77 70 70 77 1	Italian
		Netherlands	100	NL	100 OF 1	Dutch Section 2019
		Austria		(Spin AT and t	и дегор асаб⊕терт) пас	
	Ì	Belgium		BE	0	Dutch, French
	•	Switzerland		СН	0	German, French, Italian
gangna.l		Luxembour	g indignal.	Salara, FA. Salara	Foot Stage of the UPC	a dity accideditact to stock violations with
1(221)110	ocal	Sweden	(8) (8) (4)	SE SE	rest and O comi	Swedish appropriate metabolics A
		Liechtenste	in	LI I	nove (1 och f O	German, French, Italian
		Denmark	00.0	DK	Project O 2 2	Danish Contract Contracting A
8 3 6		Spain	(1 ± \$,	8 ES	O R O HARRING	Spanish (NG, II, 971, 98 (38))
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 (\mathbb{R}^2) Although the companion of the $\mathbb{R}^{(2^*)}$

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(agentical Fig. 1 Translation Entity (Japanese to English Translation)



(Fig. 2 Translation Entity (English to Other European Language)

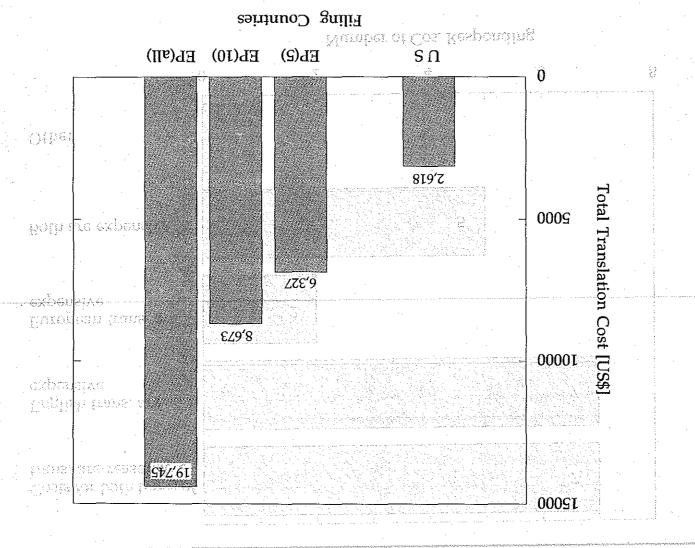


Fig. 4 Opinion concerning English and European teo's noticien and faropean teo's noticien and faropean

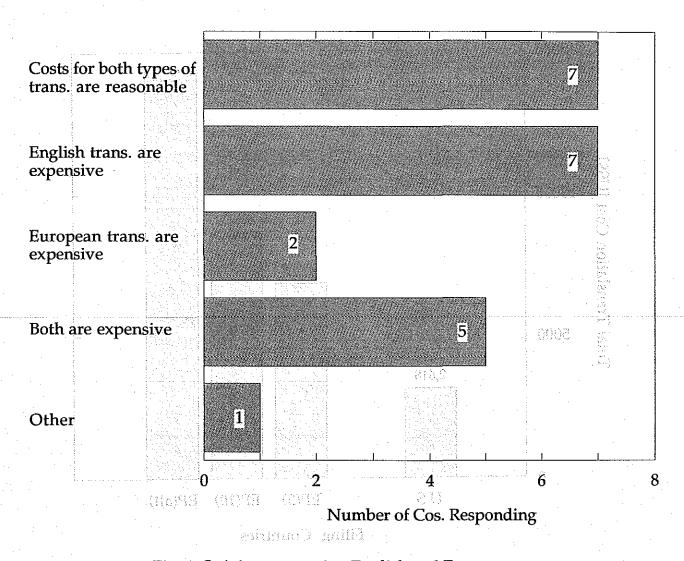


Fig. 4 Opinion concerning English and European Language Translation Costs

(1) Title: (B) Keywords:

A Study of Patent Cases on Claim Interpretation in Korea, and China (sizenobel bes sizvalam besliadt Interpretation of Patent Claims postating of (2) Date: EdmalaviubE

October, 1996 (The 27th International Congress (3) in Hiroshima)

(7) Summary:

(3) Source:

In order to survey the durrent interpretation of ratent claims in Words, Chica, TaiwanAPA Southeastern or Chicago sw is2) condrouping alegalJapan as light (enoquencia as hora . manis 3) kis Committee: valem#3 a abem bus quaan kasisa ba toolloo and also prepared a table concerning the provisions of the puttern (4): Authors: 10 decade le contain arount edd of paltaien val country.

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Result Koji Shimanuki sa fita Fuji Photo Film (Co., LTD on R Ac as Akira Seki had by . Su Matsushita Electric Endustrial 1900 when no identify in a capital $\mathsf{Com}_{\mathcal{A}} \mathsf{dtd}$ to solve in the $\mathsf{com}_{\mathcal{A}}$ sacos Kaorus Ikeya (isvs of Ricoh Co., o Ltd. W . so of of dalisvs askaA TomonoricBekkus sas MitsubishiaMotorsaCorporations of ceaninger

(5) Keywords:

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Korea, China, Taiwan, Southeast Asia (Singapore, Thailand, Malaysia and Indonesia), Patent Cases, Interpretation of Patent Claim, Doctrine of Equivalents

(6) Provisions of Laws Rayesel Solf Sdr) 8881 (28dc) 0.

(7) Summary:

rection. France:

In order to survey the current interpretation of patent claims in Korea, China, Taiwan and Southeast Asian countries such as Singapore, Thailand, Malaysia and Indonesia, we collected patent cases and made a summary after analyzing them, and also prepared a table concerning the provisions of the patent law relating to the interpretation of patent claims in each country.

As for Korea, we collected information including recent cases from the local patent offices. Based on these recent relevant cases, we introduced the current trend of claim interpretation and the application of the doctrine of equivalents. We also noted the matters of consideration in connection with patent applications in Korea. We introduced three Chinese cases which were made available recently and analyzed the claim interpretation in these cases.

Since we could not obtain sufficient information from countries other than Korea and China, we had to summarize on the subjects within the scope of materials and information made available to us. We also referred to the available way of access to patent information especially in the above Southeast Asian countries.

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At present Korea and Taiwan have made a rapid development in technology, and are getting closer to the advanced countries even in the fields of the most advanced technology. China and Southeast Asian countries have been considered as bases of industrial production as well as major markets of consumption by the advanced countries, and many of the American and European companies have made advancement into those areas these years. Especially, the Japanese companies, confronted with the rapid appreciation of Yen currency, have had to shift their production bases from the home country to China or the Southeast Asian countries to maintain the competitive power of their product. On the other hand, the countries of Southeast Asia themselves have been enthusiastic about introducing advanced technologies and foreign investments into their countries.

The Uruguay Round of GATT talks (the General Agreement on Tariffs and Trade) reached a substantial agreement at the end of 1993, and the final documents on the agreement were formally signed in 1994. All participated countries of the agreement also signed several individual agreements, including the so-called TRIPS Agreement. Ever since each member country has been trying to stipulate and amend its domestic laws so as to be consistent with each provision of the TRIPS Agreement. In these circumstances, Asian countries have been also striving to enact or amend their domestic laws as well towards this direction. It is expected that the uniform system of patent protection would be created in future.

At present, however, patent matters are practically handled by each country under its own legal system, and the protection of patent rights are not necessarily secured satisfactorily. Especially, since patent information of the Southeast Asian countries available in Japan are very limited, it is very difficult for the Japanese companies to work out appropriate strategies of intellectual property responding to the recent rapid business development in those countries.

Under such circumstances, the above-mentioned authors tried to collect and analyze patent litigation cases as the source of information and studied the current situation of patent in those countries, focusing on the trend of claim interpretation. On the bounded about the shift entrainment Scutheast Asian countries have bave considered as bases of II. 45 Korea so adaliana no ba es lles es sofdosbouq Istidasbar nasquant tas rubitema ont to wase boa yesinters beforevis out yd 1. Current Trend of Claim Interpretation whom word as insuran Papadially, the Japanese reapenles, confidence with the rapid (1) The Korean Patent Law was samended in 1973, 1980 and in 1990 respectively. In principle, the scope of the patent rights is determined based on their effective patent law. We were, however, unable to find definite correlation between the amendments to the patent law and the decisions of the Supreme Court. lestadamen vieda cami edamuzevid avievoi bas Even today "the detailed description of the invention" in the specification seems to be laid stress in interpretation of "the patent claims". As seen in the following decisions in the Supreme Court cases (90Hu960 and 91Hu1809) sin 1991 and 1992, infringement is mostly determined by comparison of the embodiments with the accused product, and the broad interpretation of the claims has been consistently rejected. to be consisted with lace ordered to the 19178 Advesment. ngivin 1) Supreme Court Case 90Hu960 . Asons is applied asoni al with abrowedcided all.12:1991/patent) and beams no space of describe The court held; the accused product brought religionable about a remarkable functional result which is his about vitable notefound in the patented invention by using 14 say by a material which is not rescribed in the verbasas borness specification, therefore the accused product desired is different from the patented invention, even the accused product is covered by the generic abedience The sclaim. This decision interpreted the scope of the sc of onlithe claim as being limited to the scope of the land same the description in the specification and bloss daylor old

2) Supreme Court Case 91Hu1809 - sassique (E (decided 6.23:1992/patent) 01 bebiceb) The court held: it is a rule to determine the scope of the patent right on the basis of the patent claims, but as long as the claims alone are not sufficient to clarify the technical structure of the invention or to determine the technical scope of the invention, we must a determine the scope of the patent right based on the specification as a whole, taking consideration of other portion such as "the detailed description of the invention or the drawings as supplement. This is a decision exactly in accordance with the provision of the # Patent Law. But this decision shows the view of A mi sthe court that as far as the consideration of issue perbether other parts of ether specification is de eA . 3001 rady concerned; the court does not allow it for the sea or . Tue purpose of expanding the interpretation of the army a and a claims, but only for the purpose of limiting the staff scope of the claims this dueday and is agous with the

Judging from the trend of claim interpretation shown in these cases, the Supreme Court seems to interpret the scope of the claim limitedly by reference to the description of the specification. The same result was obtained through a survey in the form of equestionnaire to the patent agents in Korea.

Montreake an as the length toltrolt longs of the

(2) In spite of the above general trend, several decisions reflecting a new idea gradually came into being, as seen in the following example decided in 1993. Though this decision followed the same traditional away as that rejecting broad interpretations of the claim, the court definitely rejected a narrow interpretation limiting the scope of the claim without a justifiable reason. As a page and decisions are a page and decisions of the claim without a justifiable reason.

- (decided 10.12.1993/patent)
 The court held: While the broad interpretation of the claim by taking consideration of the other descriptions in the specification is not permissible, the limited interpretation of the claim by reference to other descriptions in the specification is not also permissible, where the description of the claim by itself clearly defines the technical scope of the claim. This decision seems to preclude us from putting an excessively limited interpretation on the claims.
- (3) A new idea to interpret the scope of the patent right broadly is also found in the recent court decisions in 1996. As shown in the following case, the court acknowledged to determine the scope of the right so as to include what a person of ordinary skill in the art can easily think about. This seems to substantially admit the broad interpretation of the scope of the patent right.
- ni mwords 4): Supreme Court Case 94Hu258 and court purpose
 To egope of (decided 2.9.1996/patent) and court held: It is a general rule to determine to end
 yevens a the scope of the patent right on the basis of lived
 across athe claim, taking into account the description and of the specification alone, but as an exception,
 and alone permissible, in determining the scope of al (1)
 and an extendering the totake consideration of the believe
 moisible description of the specification, including wolfor
 based pawhat a person of ordinary skill in the art can wolfor
 based or very easily conceive of from the description quadriisodia moffthe specification itself. Account account the specification of the specification of the later can wolfor
 the specification itself. Account several
determine the scope of the patent right, including more than the mere description of the specification.

patiented invention. It can be said fint che

Considering the history of claim interpretation in Korea, such new idea found in the recent decisions is rather the opinion of the minority, and cannot be said to be an established opinion. However, it would also be an undeniable fact that the interpretation of the patent claims in Korea is on the way of a gradual change while keeping the traditional way of thinking. Thus, it may be said that Korea is now entering the transitional period in the interpretation of patent claims.

to interpretable of the base in Forest Dual court dasse in

- Korean Supreme Court is the emphasis laid on functional result of the product. In the Supreme Court case, 92Hu575 in 1993, the court remanded the case to a lower court due to the insufficient examination of functional result. In the Supreme Court case, 92Hu1493 in 1993, the court held that even in the case that the elements of the accused product are different in part from those of the patented invention, the accused product is to be found to be covered by the patented invention, if the major portion of the structure is identical and the product deteriorates in function as a result of the substitution of the element. This feature of the determination of infringement is also found in recent decisions, the representative example of which is shown as follows:
 - 5) Supreme Court Case, 94Hu142 (decided 7.11.1995/patent)
 The court held: in the case where there are some differences in the elements between the accused products and the patented invention, if the differences are a simple change in design, a simple addition, or a simple change in materials such that a person with ordinary skill in the

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art can easily apply and the product does not demonstrate improved functional result, the accused product is deemed to be covered by the patented invention. It can be said that the patented invention. It can be said that the court relied on the functional result to determine whether the minor differences in the accused elements as a result of a simple design change of the patented invention.

2. Application of the doctrine of equivalents of a simple design change and the same accused as a simple design change of the patented invention.

Today the doctrine of equivalents is accepted as a rule to interpret the patent claims in Korea, but actual cases in which infringement was determined based on the application of this doctrine of equivalents was quite rare, even after the standards of interpreting the scope of patent protection was provided in the patent law.

In the following case (Supreme Court Case, 72Hu42) in 1973, the court adopted an idea to determine the substantial scope of the patent right, taking the nature and purpose of the patented invention into consideration.

deaborg 6) Supreme Court Case, 72Hu42 eds in animog solar ods is solared solared solared by

The court held: Although the description of the patent claims is the main basis to determine the scope of the patent right, the determination of the patent right should not be bound by these description only, but should be made after ascertaining the nature and purpose of the patented invention by reference to "the detailed description of the invention" and "the brief description of drawings" both combined as a whole.

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broad interpretation of claims based on the doctrine of equivalents was the fact that the requirements for equivalents were not clearly established in Korea. In the Supreme Court Case, 93Hu824 in 1994, the court specified the following requirements for equivalents and determined infringement on this basis:

- The Altho Possibility of element interchangeability of the content - vicib. obSubstantial identity of functional result on a
- This was only case applying the requirements for equivalents, and the Korean patent agents regard the case as a noteworthy one. We would like to watch whether the application of the doctrine of equivalents would be established in Korea in future.

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3 apConsiderations: , accommissed and to appoint and all (0)

As a result of our survey, we found that the general trend of the recent court decisions involving patent infringement do not make so much change as compared with the previous decisions even though there are several cases showing new ideas. The scope of claims in Korea is interpreted narrowly by being construed as being limited to the embodiments in the specification. On the other hand, it is also true there are several cases indicating new ideas of claim interpretation, as stated above. Therefore, before enforcing Korean patents, it is necessary to check the scope of the patent claims by consulting with local patent attorneys or agents familiar with the patent practices.

In filing patent applications in Korea, while following considerations would be recommended and a second again.

(1) In view of the decision in the above-mentioned case (90Hu1908) -- "the limited interpretation of the claim by reference to other descriptions in the specification is not also permissible, where the description of the claim by itself clearly defines the technical scope of the claim" -- it would

be important to describe the claims carefully so as to clarify the technical scope of the invention by itself, and to arrange the claims in the form of a hierarchy from a generic claim to specific claims.

- (2) In order to cover the potential infringement even in the case of the narrow claim interpretation limiting to the embodiments in "the detailed description of the invention" in the specification, it would be advisable that a wide variety of embodiments and modifications shall be contained in the specification to support specific claims which cover the patented idea sufficiently. It may be useful as a measure to avoid the interpretation as being limited to "the embodiments of the invention" to prepare the drawings corresponding to a generic claim separately from the drawings corresponding to specific claims.
- (3) In the process of the examination, the examiner might ask to introduce reference characters of the drawings into claims. Though there are no court decisions in which the scope of the patent right was determined based on the reference characters of drawings, it would be advisable not to use them in filing application, so that the scope of the right should not be determined by such reference characters.

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We presume that many patent disputes are tried in China. However, the decisions are made at the administrative courts and the courts are not obligated to make their decisions to public. Therefore, it is not easy for us to obtain the information on these decisions.

This time we picked up three recent cases involving the interpretation of patent claims (including a case at a lower court) from the cases carried in "China Patents & Trade Marks" (a magazine published by China Patent Agent (Hongkong) Ltd., Hongkong China Patents & Trade Marks Magazine Co.)

- Trade Marks, 1995 No.3 pages 81-84)

 Based on the principle of equity that it is not fair to vary the scope of the patent right depending on the skills of claiming, the court extended the scope of the patent right to the accused product incorporating the technical idea of the invention. In spite of the fact that the accused product lacked some limitations of claimed elements (including playback system), the court determined that the patent was infringed. But since this was a decision at a lower court, it cannot be said that such practice was commonly established.

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In spite of a partial reduction to practice of
the claimed elements, the court judged as a
direct infringement of entire patent right
(electric furnace including the accused coil)
rather than finding a contributory infringement.
This is because, though the accused coil did not
literally fall within the scope of the patent
claim, the accused coil utilized the primary
technical idea of the direct current electric
furnace manufactured by the plaintiff.

3) Shen Color-changing Pen Case (China Patents

& Trade Marks, 1994 No.28 pages 68-70)

The court held that "The product manufactured by

the defendant, namely the multi-tip pen, had

already been listed as prior art by the

plaintiff and excluded from the scope of

protection of his patents the way the nibs were

arranged was different from that of plaintiff's invention and was incapable of causing two nibs to come into contact with a piece of paper simultaneously so that the two colors would overlap, creating a new color." The court found the accused product to be non-infringement on the basis of the doctrine of estoppel.

As in the many other countries, the scope of the patent right is interpreted on the basis of the claims in China (Patent Law of China, Article 59(1)). And an infringement by the accused product seems to be affirmed only when the product includes all the elements described in the patent claims.

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But it is notable that the court interpreted the scope of the patent rights broader than the literal scope of the claim as seen in the cases reported above. For instance, in the case of therapeutic apparatus, it was held that "Even in the case in which the accused product lacks an element in the patent claim, the accused product is still determined to be covered by the patent claim, in a case where this element is deemed not to be indispensable for the invention". This decision is quite different from "all element rule" in the United States.

In some of the recent patent cases in China the court seems to have determined the scope of the patent right broader than the scope allowable even under the doctrine of equivalents. The courts in China are likely to evaluate the technical idea from substantial viewpoint and use the identified technical idea as the basis of determining infringement. This may be said to be a quite unique practice compared with other countries. Therefore, we cannot deny such possibility that even if the third party believes its product is not covered by the patent claims, this product may be found by the court to have infringed the patent. Such practice is quite questionable in view of legal uncertainty and the possibility of arbitrary discretion by the courts.

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In Taiwan there are many patent lawsuits, but since most of the accused products are nothing but so-called dead copies of the original products, the interpretation of the claims could not be at issue in the course of court proceedings. We could not obtain any case relating to the interpretation of patent claims during our survey this time.

We obtained a guideline called "GUIDE OF CLAIM INTERPRETATION" (see the attached flow chart) issued by the Patent Office of Taiwan in March of 1996. This is an official guideline by the Patent Office in interpreting the patent claims and seems to be consistent with the practices in the United States.

flow chart, the sinfringement to this determination starts with a check as to whether the accused product include all elements of the claims. If the answer to this question is negative, then it proceeds to the application of the doctrine of equivalents. With respect to the scope of equivalents, a determination is made based on the three factors of requirements for equivalents: the substantially same way, the substantially same function and the substantially same result. Even if literal infringement by the accused product is affirmative, it is not finalized as infringement but is subject to a further check of "the doctrine of equivalents in reverse". This "doctrine equivalents in reverse" seems to be applied to cafford as remedy to the saccused infringer in the case where an accused product employs a substantially different technical idea even if it includes literally all the elements of the claims. The details of the standards of the application of "the doctrine of equivalents in reverse" are not known but will be likely to be established through practices in future. This quideline is unique in that "the doctrine of equivalents reverse" is inserted in the flow chart as a necessary consideration for athe a routine appractice of ainfringement

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determination. In addition, the application of the doctrine of estoppel is also stated in the flow. The estoppel ("file wrapper estoppel") precludes a patent owner from asserting a different opinion later with respect to the interpretation of the scope of ratent right from what he stated in the course of examination proceedings of the application.

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V. Other Countries of Southeast Asia

We received answers to our questions in connection with our survey this time from the local patent agents in Thailand and Singapore. We found that in these countries there were patent lawsuits at the courts, but no cases were involved with the interpretation of the claims.

For instance, in Thailand most cases regarding intellectual property involve the issues of trademark and patent dispute cases are few. And the only decisions made public are those of cases tried by the supreme court, but no patent case was handled by the supreme court in the past. Therefore, there is no publicized case available relevant to interpretation of the claims in Thailand. To obtain a general patent information in Thailand, a magazine called "Thai Patent Act" published in Thailand is usuful.

The situation of patent cases in Singapore is almost the same as in Thailand. Only a few months over one year has passed since the enactment of Singapore patent law, and no patent case involving claim interpretation of the claims seems to have existed in Singapore. In reality, the courts in Singapore are considered to rely on the British precedents. Therefore, in interpreting claims, the British precedents are useful for reference purpose. As for information sources on patent in Singapore, "Patent Journal" is published quarterly by the Singapore Patent Office. This publication carries an information concerning patent applications and the activities of the Patent Office, and is offered for public perusal. In

addition a magazine called "Managing Intellectual Property" is published monthly be added as a viven and videous additions.

We did not receive answers in detail to our questions from Malaysia and Indonesia. In Indonesia two lawsuits were instituted for patent infringement recently, but the decisions did not refer to the interpretation of the claims.

VI. Y Comparison of Relevant Provisions of Patent Laws among Countries in Asia) Osciona Rollegge Sale Sale (1980) (1980) (1980)

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"The Scope of Patent Right Protection" in various countries in Asia is shown as per the attached Appendix. The patent law in each country except Malaysia provides that the scope of patent right protection is determined on the basis of the patent claims. With respect to "the Doctrine of Equivalents", we cannot find any relevant provision in the patent laws except in Thailand patent law.

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VII. a Conclusion and all modays nobulation is sanging of

practice of interpreting the patent claims in Korea and China is largely different from such practice in Japan, U.S.A. and Europe. Therefore, in enforcing our patent rights, it would be very important for us to cooperate with the local patent attorneys and agents. Further, since the information on patent available to us in Japan is very little with respect to Taiwan and such Southeast Asian countries as Singapore, Thailand, Malaysia and Indonesia, it would be necessary for us to keep on collecting patent information from the local offices or the local corporations of each company in future as well.

In addition, the appropriate practice of the proper claim interpretation is also very important to enforce our patent rights together with the establishment of a proper protection system of the rights. In view of the above, we should pay attention to both the TRIPS agreement and the so-called

"Harmonization Treaty". When the TRIPS agreement to be administrated by the newly established WTO (the World Trade Organization) came into force, the individual member country of the WTO was required to establish a common framework of patent protection through the enactment and amendment of its domestic laws. On the other hand, however, the discussion of the Harmonization Treaty (draft) is now suspended. It is expected that next year the way of proceeding with this treaty is straightened out and the discussion thereof will be resumed on the right track. We sincerely hope that the new system of patent protection under WTO will work effectively and properly in future and that the Harmonization treaty will reach a substantial agreement successfully.

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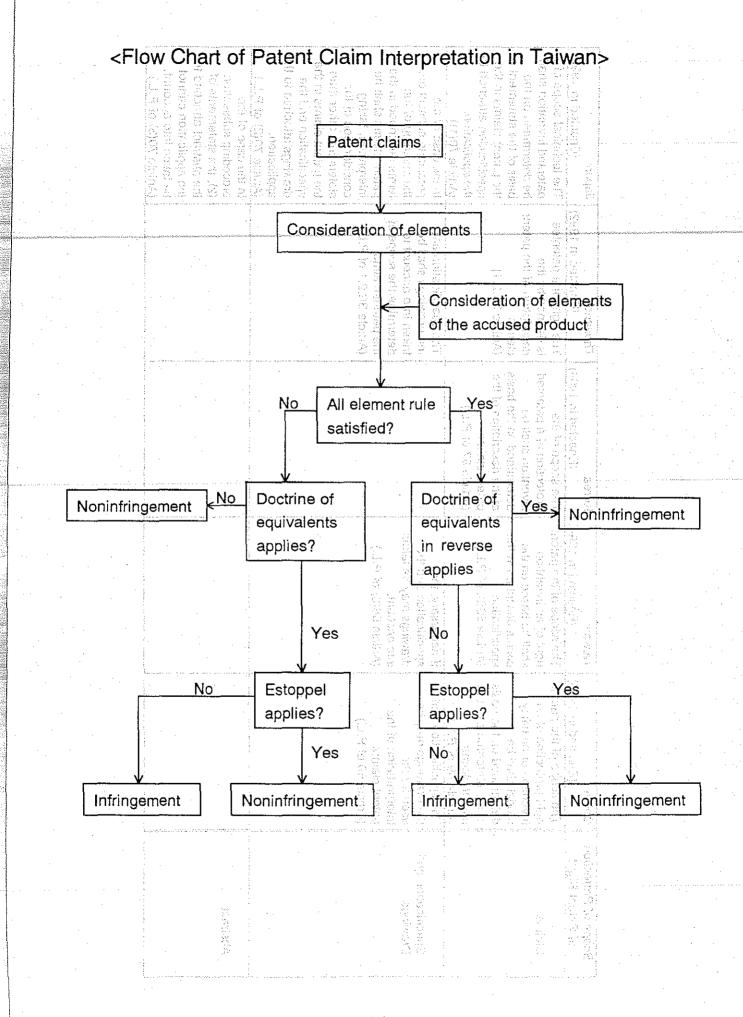
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Scope of Protection	China	Taiwan	Lyong	Thailand	Llanan	
of Patent Right	(Enacted in 1993)		Korea (Enacted in 1994)	(Enacted in 1992)	Japan (Enacted in 1996)	
Claims	The scope of the patent		The scope of the protection of a patented invention shall be	The right of a patentee is defined by the description of the patent claims.	The technical scope of a patented invention shall be determined on the	
•	determined on the basis	claims described in the specification.	determined on the basis of the description of the	(Article 36.2.1)	basis of the statement of the patent claims in the	
: •	of the statements of the patent claims. (Article 59 of P.L.)	(Article 56(3) of P.L.)	patent claims. (Article 97 of P.L.)		specification attached to the application. (Article 70(1))	
Specification and Drawings	The specification and the drawings may be used for the interpretation of the patent claims.	If necessary, the specification and the drawings may be taken into account. (Article 56(3) of P.L.)		The specification and the drawings shall be taken into account to determine the scope of the patent claims.	In the case of the preceding subsection, the meaning of the terms described in the patent claims shall be	
	(Article 59 of P.L.)			(Article 36.2.1 of P.L.)	interpreted, taking consideration of the statements other than the patent claims in the specification and the drawings attached to the application. (Article 70(2) of P.L.)	
Abstract					In the case of the preceding subsection (2), the stetements of the abstract attached to the application cannot be taken into account. (Article 70(3) of P.L.)	

Scope of Protection of Patent Right Doctrine of Equivalents		No provision. But in practice, this doctrine doctrine is des seems to be adopted. No provision. No provision. doctrine is des		ted in 1994) Korea (Enacted in 1994)		Thailand (Enacte	d in 1992)	No provision. ame			
				No provision. But this doctrine is described in the "Guide of Claim Interpretation".		No provision.				In the case that the products have the same characteristic, the same utility and the same	
	Doctri Equiv	8 CL	ido provisio		No provisi	1,31	l go broats	result as the classification product, as see the view of a passification the results.	n from erson levant	e di S	
	Medy						A composition of the first of t	field or area, the protection of the right may be ex	e patent ktended to		
	Spora Orawi	ostron serdi Gs			hweetien a only for the the interpo- patent clair (Governm	1 : :	and the property of the control of t	such features of products so as covered by the claims, even if features are no described in the (Article 36.2.2)	to be patent those it e claims.		
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	CHENTON		No provisi	0.0	диавидей	of a patented stalf be	No provisi	our	14.1 (DA)3		
		si Protection Pert Higgs		rejerit 188	Manau Manau	mary in 1988)	Engapore Ch	PP(04 E17 888)		Gaspes to (1951.)	:

	Scope of Protection of Patent Right	Malaysia (Enacted in 1995)	Vietnam (Enacted in 1995)	Singapore (Enacted in 1996)	Indonesia (Enacted in 199	1)
	Claims	No provision.	The scope of the protection of a patented invention shall be determined by the patent claims. (Government Ordinance, Article 16)	No provision.	No provision.	
	Specification and Drawings		The explanation of an invention shall be used only for the purpose of the interpretation of the patent claims. (Government Ordinance, Article 16)	stedb feattales brodock solls gaverndiby de charten nega tren ar negr averneed en t	0 (1955/27) pt Active (1976) fu 49 pt 196	
	Abstract			and or reed, protection of i different best	oo balsur	-
·	Doctrine of Equivalents	No provision.	No provision.	No provision/felial folias in the Alexa of the business are to the provision for the Alexa of th	No provision.	
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not passed, but Congress will return to Washington on September 3 from its August recess and is expected to address many of the pending bills.

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many of them from being passed. Since this is the second session of the

10 (th Congress, any bills not actually passed before Congress adjourns in

OCTOBER 10, 1996

serby October for the elections will automatically die and have to be reinfinduced in the 105th Congress in January. This paper does not attempt to cover IP legislation that has been enacted into law during the 104th Congress but only deals with IP legislation that is currently still.

Frederick T. Boehm
Assistant General Counsel
IBM Corporation

The following is a summary of important bills that affect intellectual property (iP).

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UPDATE ON PROPOSED U.S. IP LEGISLATION

1996 has been a very active year for new IP legislation in the U.S. and a number of IP bills are pending. As of the writing of this article these have not passed, but Congress will return to Washington on September 3 from its August recess and is expected to address many of the pending bills. However, lack of time and other important pending legislation may prevent many of them from being passed. Since this is the second session of the 104th Congress, any bills not actually passed before Congress adjourns in early October for the elections will automatically die and have to be reintroduced in the 105th Congress in January. This paper does not attempt to cover IP legislation that has been enacted into law during the 104th Congress but only deals with IP legislation that is currently still pending.

The following is a summary of important bills that affect intellectual property (IP).

Assistant General Counsel

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of GATT for the purpose of expressly prevending submarine patents. A. subnarine patent is obtained by an applicant legally manipulating the H.R. 359/S. 284 H.R. 359 was introduced by Representative Rohrabacher on January 4 1995 and has 203 co-sponsors. The Senate Counterpart, S. 284 was introduced by Senator Dole on January 26: 1995; stressed seems of the continuous series of the c translation to be submitted 2 movers lated and to allow the correction of These bills will amend Section 154 of Title 35 of the United States Code to change the patent term so that it ends 17 years from the date of grant of the patent or 20 years from the earliest effective filing date on which the application was filed in the United States, whichever is later. The bills also open for inspection by the public, applications filed more than 60 months earlier admun a vid beacquo ai il . beganavealto are aumbergliero la la coposed by a numbergliero groups including the National Association of Manufacturers, American Consequently. These bills would overfurn the GATT Implementation Law enacted in December 1994, which had changed the patent term so that it A ends no more than 20 years from the earliest effective filing date. This

permit patent term extensions fied directly to U.S. Patent Office delays -

GATT Implementation provision had gone beyond the strict requirements of GATT for the purpose of expressly preventing submarine patents. A submarine patent is obtained by an applicant legally manipulating the patent system to prevent it from issuing until many years after the original filing date. The 20 year term was also passed to implement a bilateral agreement with the Government of Japan. In exchange, Japan agreed to accept Japanese patent applications in the English language, with a translation to be submitted 2 months later, and to allow the correction of translation errors.

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Rohrabacher's bill is strongly supported by the Small Inventor.

Organizations argue that many of America's most important inventions take longer than 3 years to move through the Patent and Trademark Office so that U.S. inventors are disadvantaged. It is opposed by a number of groups including the National Association of Manufacturers, American Electronics Association, Intellectual Property Owners, Business Software Alliance and Software Publishers Association. Their position is that if there is to be an amendment in this area, then it should be an amendment to permit patent term extensions tied directly to U.S. Patent Office delays

(they support the Morehead bill H.R. 3460 discussed below). There should not be compensation for applicant caused delays or an open-ended opportunity for selected applicants to delay patent issuance indefinitely.

yousyst administrative delays in the Patent and Trademark Office that are

In the first test of Rohrabacher's bill, the House Intellectual Property

Subcommittee defeated it by a vote of 12 to 2 on May 15. The next day,

Rohrabacher issued a statement criticizing H.R. 3460. Rohrabacher may

attempt to substitute his bill for Title II of H.R. 3460 in Full Committee or on

the floor of the House.

must respond to each communication by the applicant within four months.

H.R. 3460 and S. 1961 one off of behavior and live most motion and to

Several patent related bills that were introduced earlier in the 104th

Congress have been combined into what has become known as the omnibus patent bill. It has been introduced in the House by Rep.Carlos

Moorhead (R-CA) on May 15, 1996 and in the Senate by Sen. Orrin Hatch

(R-UT). Although nearly identical, S.1961 adds the U.S. Copyright Office to the Patent & Trademark Office government corporation and omits the House provisions that are directed at fraudulent invention promoters.

long as the party has received notice of the published application. An

The next major subjects covered in these bills are: we have seen a second verify

Patent Term — The bills extend the current 20-year term in the case of unusual administrative delays in the Patent and Trademark Office that are beyond the control of the patent applicant. The bills propose a so-called "objective time clock" for various PTO actions for determining the length of the extension. For example, if the PTO fails to issue the first office action within 14 months after filing, the patent term will be extended one day for every day that elapses until the first action is issued. Similarly, the PTO must respond to each communication by the applicant within four months, or the patent term will be extended by the amount of delay in excess of this period.

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Publication of Patent Applications -- The bills provide for publication of addisorder variation and most patent applications filed in the U.S. Patent and Trademark Office 18 most patent applications filed in the U.S. Patent and Trademark Office 18 months after the earliest effective filing date. Upon publication, the patent earliest effective filing date. Upon publication, the patent earliest is given a provisional right to a royalty from any party who entire induction and party who entire induction after the date of publication and before grant, so entire the invention after the date of publication and before grant, so entire the patent and server a successful and server as party who long as the party has received notice of the published application. An

Condress have been combined into what has become known as the

exception to publication at 18 months is provided for applicants who are not filing outside the U.S. Such applications will not be published until three months after the first office action if that date is later than 18 months after the earliest effective filing date. The House bill limits this exception to applicants who are independent inventors.

operating and insocial flectivity their discussion PTC. Units some earlier

Patent Prior User Rights — The bills contain a somewhat narrower version of legislation proposed in the last Congress to provide a defense to patent infringement for a party who has commercialized a patented invention in the U.S. at least one year before the patent application filing date. In order to qualify for the defense, the party must practice the invention in good faith and have made serious preparations to do so in the U.S. prior to the effective date of the patent application.

expanded Patent Reexamination — The bills give third parties a greater opportunity for participation in reexamination in the PTO than the very limited rights they have under current law. A key feature is a right for third party requesters to appeal to the Board of Patent Appeals and provided interferences and the Court of Appeals for the Federal Circuit. The bills

also include estoppel provisions designed to prevent duplicative litigation in patent rexamination proceedings and district court suits.

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PTO Government Corporation — The bills convert the U.S. Patent and Trademark Office to a government corporation, that would have greater operating and financial flexibility than the current PTO. Unlike some earlier proposals that separated the PTO from the Department of Commerce completely, the current bills preserve a link with Commerce by making the PTO corporation subject to policy direction from the Secretary of Commerce. The Senate bill also contains a controversial proposal to move the U.S. Copyright Office from the Library of Congress to the proposed corporation. This provision should result eventually in lower USPTO fees.

Protection From Invention Promoters — The House bill adds a chapter to title 35 of the United States Code to require invention promotion companies to disclose information to their clients about their success rate in marketing inventions and mandates certain standard provisions in

interferences and the Court of Appeals for the Federal Circuit. The bills

contracts with clients. The Senate bill does not have any corresponding provisions are until most areay 02 of austi most areay 11 to each not stay and another contracts.

June 8, 1995. For palents or applications filed before that date, Section

The House Judiciary Sub Committee approved H.R. 3460 on June 11 even though it was vigorously opposed by Rohrabacher and his supporters. The hearing on S. 1961, originally scheduled for July 25, has been postponed until after the August recess. Most U.S. Intellectual property associations are urging the House and Senate to support having a vote on and passing omnibus patent reform legislation when Congress reconvenes on September 3. Thus, the bills are very much alive, but the time that remains is short and the main obstacle appears to be not Rohrabacher and other opponents, but competition from numerous non-IP bills that are awaiting action.

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The Senate Judiciary Committee approved on May 2, a bill (S 1277)

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Appropries remedy firstetich in the URAA specifically overrides the

The Uruguay Round Agreements Act (URAA) changed the patent expiration date of 17 years from issue to 20 years from filing, effective June 8, 1995. For patents or applications filed before that date, Section 154(c)(1) creates transitional provisions to set the expiration date at the greater of 17 years from grant or 20 years from filing.

transported and the conclusion of the for the particle of the property of the property of the property of the conclusion of the property of th

However, the remedy for infringements resulting from such an extension, under an amended Section 154(c)(2), is limited to "equitable remuneration," with no injunctions, damages, or attorneys' fees. This limitation applies to uses that were commenced, or for which a "substantial investment" was made, before June 8, 1995, and that became infringing because of the transitional provisions.

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Although the remedy limitation in the URAA specifically overrides the general remedy sections of Title 35 (Section 283, 284 and 285), it fails to mention the special remedy provision at Section 271(e)(4). The effect of this disparity is that pharmaceutical patent owners, unlike other patentees, is a local patent of the full range of injunctions, damages and attorneys' fees under the full range of injunctions, damages and attorneys' fees under the full range of injunctions, damages and attorneys' fees under the full range of injunctions.

Section 271(e)(4) against generic manufacturers during the URAA patent term extension. This disparity is corrected by \$1277.

H.R. 632/ S. 880

These bills were introduced by Representative Martin Frost on January 23, and to be seen
Claims to the process and composition of matter must be either contained The bill would amend 28 U.S.C. 1498 (a) to allow the recovery of the in the same application, or in separate applications having the same patent owner's costs, including reasonable fees for expert witnesses and effective filling date, and the process and composition of matter must, at attorneys, in pursuing patent infringement actions against the U.S. the time the process was invented. have been owned by the same person government if the owner is an independent inventor, a non-profit or have been subject to an obligation of assignment to the same person. organization, or an entity that had no more than 500 employees at anytime during the 5-year period preceding the use or manufacture of the patented The bili requires that if the process and composition of matter claims issue invention by or for the United States. Rep. Frost argues that independent in two separate parents, that they be set to expire on the same date as the inventors and small and medium sized companies should be recompensed composition of matter patent for their enormous legal costs if then successfully sue the U.S. Government. The bill was passed by the House on 12/12/95 and has been

included in the miscellaneous section of H.R. 3460.

Section 271(a)(4) against generic manufacturers during the UPP 883th HIH

H.R. 587 - was introduced by Rep. Morehead on January 19, 1995.

The bill would require a per se holding of non-obviousness, at the election of the applicant, for claims to a "biotechnological process using or resulting in a composition of matter that is novel under Section 102 and non-obvious as yearness, no team of this weather that is novel under subsection (a) of this section..."

1995 and by Senator Hutchineon (D-TX) in the Senate on 6/6/85,

Claims to the process and composition of matter must be either contained and to visvous and wells of (a) 80 ht. O.S. U.S. breate bluow lid and in the same application, or in separate applications having the same breatestand heavy to see a side posses gradularity state a reason a reason effective filing date, and the process and composition of matter must, at S.U. and temperature and the process was invented, have been owned by the same person thoughness as a reason and the same person or have been subject to an obligation of assignment to the same person.

The bill requires that if the process and composition of matter claims issue in bringhead led as the interpretate patents, that they be set to expire on the same date as the been supposed of burds as insurance basis multiplications for supposition of matter patent.

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Government. The bill was passed by the House on 12/12/95 and has been

included in the misualisheous section of H.R. 3450:

Finally, the bill amends Section 282 of Title 35 to clarify that if a provinces composition of matter claim is held invalid and that claim was the basis of a determination of non-obviousness under Section 103(b) (1), then the process shall no longer be considered non-obvious solely on the basis of this section. The biotech industry argues that the bill would ease the issuance of patents in the biotech area. On the other hand, the Intellectual Property Owners argue that per se patentability will result in bad patents.

HR 3814 - Medical Procedures

The House on July 24 passed appropriations legislation (HR 3814) for the Patent and Trademark Office (see further discussion below) with an amendment that prohibits the agency from expending funds on the issuance of medical process patents. The amendment was offered by Rep. Greg Ganske (R-lowa) and corresponds to a bill (HR 1127) that he introduced on the subject last year. Under the bill, the PTO would be barred from granting patent protection for new medical procedures except as a necessary component of a patentable medical device or machine.

A somewhat different Senate bill (S1334) was introduced last October by Sen. Bill Frist (R-Tenn). It would create an exception to infringement

liability for patients, physicians, other licensed health professionals and health care entities using patented medical techniques at smile notice care a determination of non-obviousness under Section 193(b) (1), then the process shall no longer be considered non-abylique salely on this basis of this section. The brotech industry argues that the bill would ease the sayance of patents in the blotech area. On the other hand, the intellectual Property Owners argue that per se patenticitiv will result in bed patenter.

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The House on July 24 passed appropriations legislation (HiR 3814) for the Patent and Trademark Office (see further discussion below) with an entine should enderence from expending funds on the issuance of medical process patents. The amendment was offered by Rep. Greg Ganske (R-lowe) and corresponds to a bill (HR 1127) that he introduced on the subject last year. Under the bill, the PTO would be barred from granting patent protection for new medical procedures except anidam to constituem eldalocità a la inedocorca viazzened a ca

A somewhat different Senare bill (\$1804) was introduced last October by Sen. Bill Frist (R-Tenn). It would create an exception to infringement

A new Section 1201 of COPYRIGHT RELATED 1031 motions were

manufacture, or distribution of any device or the provision of any service.

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The Clinton Administration in 1993 established a task force to promote the management information." Finally, under Section 1203, the remedies for

development of a National Information Infrastructure (NII). It's aim was to inclination in heliconal and a neither much a neithean much a neithean a neithean much a neithean a

make electronic information more widely available through a "highway" of

highspeed networks. The NII working group's final report was issued last of quite senting with copyright management including including the property of the pr

September and S 1284 and HR 2441 were quickly introduced in late

September by Sen. Orrin Hatch (R-Utah) and Rep. Carlos Moorhead

(R-Calif), to implement the NII working group's recommendations for entitle (8)801 lines 101 anothers because bluck noiteisign entitle copyright law reform.

Oppyright Act to make clear that the right of public distribution applies to

The legislation would expand the current infringement exception for

libraries at Sections 108(a), (b) and (c) of Title 17. It would allow libraries

to prepare three copies of works in digital or facsimile format and authorize

H.R. 533 was introduced by Representative Knollenberg on the making of a number of copies by libraries and archives for purposed of the first of the bill would amend Section 117 of title 17 to permit

preservation.

the "rightful possessor" (as compared to the "owner" in the present law) of

a copy of a computer program to make or authorize another to make a

A new Section 1201 under that chapter would prohibit the importation, manufacture, or distribution of any device or the provision of any service, to decode the encrypted portions of copyrighted works. Section 1202

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would_prohibit the dissemination of false, or altered "copyright end stomated of exact plast is bertaildates 8881 of notification by noticity and management information." Finally, under Section 1203, the remedies for of ask mile at a (IRA) student and noticity and management information of copyright protection systems would include injunction, to "vewright" a regarded plasticles ask yields a stomatic plastic
The legislation would also amend Sections 101 and 106(3) of the compared well regarded Copyright Act to make clear that the right of public distribution applies to computer network transmissions of copyrighted copies and phonorecords.

libraries at Septions 103(e) (a) and (b) of Title 17. If would allow libraries

September on Sen, Ordn Hatch (R-Utsh) and Pap. Carlos Moomeed

(R-Calif), to implement the MI working oroug's recommendations for

H.R. 533 exportus the tempt shallost to letiple to extrem to each conserve or

H.R. 533 was introduced by Representative Knollenberg on January 17, 1995. The bill would amend Section 117 of Title 17 to permit the "rightful possessor" (as compared to the "owner" in the present law) of a copy of a computer program to make or authorize another to make a

copy or adaptation of the computer program if such new copy or adaptation is made for archival purposes or is created as an essential step in the about utilization of the computer program in conjunction with a machine and it is quite used in no other manner.

Permit independent computer service companies to service computers that use proprietary operating systems. The Ninth Circuit case MAI Systems. Corp. v. Peak Computer Inc., 26 USPQ2d, 1458 (CA9 1993), held that a copyright infringement occurred when a service company loaded MAI. Second licensed software into a computer's RAM in order to service the computer.

<u>S.227</u>

S. 227 - was introduced by Senator Hatch on January 13, 1995.

The bill would add a new paragraph (6) to 17 U.S.C. 106 creating an exclusive right "in the case of sound recordings, to perform the copyrighted work publicly by means of a digital transmission" if the sound recordings are performed publicly as part of a subscription transmission service.

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Such subscription transmissions would be subject to statutory licensing on under the section. Section 115 is also appropriately amended to allow phonorecord makers, operating under compulsory license, to distribute sound recordings by means of digital transmission.

Under current law, the owner of the copyright in a sound recording does not have a performance right. Thus, the performer of a sound recording has no right to compensation for the public performance of his work. In contrast, the owner of the copyright in the music or lyrics in the recording does currently have a right to compensation for a public performance.

H.R. 789

H.R. 789 - was introduced by Rep. Morehead on February 16, 1995.

7222

The bill would amend of the Copyright Statute to increase the term of copyright from life on the author plus fifty years to a term of life of the author plus seventy years. The reason for proposing the increase in term is to obtain reciprocity for the works of U.S. citizens in Europe. European countries currently provide their citizens with a copyright term of life of the

S. 227 - was introduced by Sepator Hatch on January 13, 1995.

author plus seventy years, but provide U.S. authors with the same term offered to European authors in the U.S..

HR 3723/5 1556

The Senate Judiciary Committee on July 25 approved legislation (S. 1556) that seeks to criminalize the theft of trade secrets. Like a bill (HR 3723) recently approved by a House subcommittee, the legislation would impose fines and prison sentences on Individuals and corporations that angage in economic espionage. This bill creates criminal penalties for the knowing misappropriation of "proprietary economic information" worth \$100,000 or more, by any person acting "with intent to, or reason to believe that it will, injure any owner."

Punishment of individual offenders would include imprisonment of up to 10 years, and/or fines of up to \$250,000 or twice the value of the proprietary information, whichever is greater. Offending corporations could be fined up to \$10,000,000, or twice the value of the proprietary economic information, whichever is greater.

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Appropriations Act of 1997" and agreed to provisions signoning off \$54 million of patent fees the funding of unrelated activities. The Senate Appropriations Committee agreed to withhold the same amount in reporting H.R. 3814 to the Senate floor for a vote after the August recession little amounts to 8% of the total PTO budget for the next fiscal year and will seriously impact PTO operations and keep pressure on PTO fees. The USPTO is supported entirely by the fees it collects and this diversion of fees for general government purposes is, in effect, a \$54 million tax on inventors.

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offense, in addition, it permits the president to impose a ban of up to five

prohibitions. Violations of those importferport sanctions outld bring fines

H.R. 3814 - USPTO APPROPRIATIONS

On July 24, 1996 the House passed H.R. 3814 called the "Department of as helder a terrodority (20), 60 fb to about and related Agencies

Commerce, Justice, and State, the Judiciary and Related Agencies

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NEW EUROPEAN COMMUNITY TRADE MARK SYSTEM

Council Regulation (EC) no. 40/94 and Rules no. 2868/95.

1. The Community Trade Mark Office (CTMO) opened for business in Alicante, Spain on 1st April 1996. Its formal name is "OHIM" (Office for the

Harmonisation of the Internal Market [Trade Marks and Designs]).

The Office is untili-putional being staffed by nationals of Meniber States

2. The Office is multi-national being staffed by nationals of Member States

throughout the European Union.

Elapnopisation of the Internal Market (Trade Marks and Designs)).

The president is Mr. Combaldieu (France) and the Vice Presidents are

Mr. Caşado (Spain) and Mr. von Mühlendahl (Germany).

Countil Regulation (EC) no. 4094 and Raiss no. 2868/95.

NEW BUROPEAN COMMUNICATION MARCHAIS

3. The Community Trade Mark (CTM) System is a means for obtaining a single ("unitary") registration covering the entire European Union (EU) via a single application. Because it has a unitary character, it stands or falls as a single unit and it is not possible to have a Community registration covering only some of

the Member States within the EU. It co-exists with existing national systems.

Austria Greece Sweden Belgium Ireland Dominark Italy

Landing you that the EU currently consists of the following It countries:-

I remind you that the EU currently consists of the following 15 countries:-

Austria

Greece

Sweden

Belgium

Ireland

Denmark

Italy

Finland

Luxembourg

France

po po in co oriem algrandi uniono element. Netherlands

Germany Portugal Francis Los partitions of Adult on A. some of

Great Britain (100 Spain (101) commoned is known on Juga on a surface mag

Please note that Switzerland and Norway are not EU Members and are thus not covered by the CTM system. (CLM) glarges is a supplied to the system.

6. A CTM may consist of any signs capable of being registered graphically.

particularly words, including personal names, designs, lotters, humerals, the shape of goods or their packaging, <u>providing</u> that such signs are capable of

distinguishing the goods or services of one undertaking from those of other

undertakings (Article 4).

Alicante.

5. It is possible to file a Community Trade Mark application for goods or services at the National (including Benelux) Registries or directly with the CTMO in

6. A CTM may consist of any signs capable of being registered graphically, particularly words, including personal names, designs, letters, numerals, the shape of goods or their packaging, providing that such signs are capable of distinguishing the goods or services of one undertaking from those of other undertakings (Article 4).

Alloant

at the Mational (Including Benefits) Registries or directly with the CTMO in

It is physible to the a Community Trade Mark application for goods or services

7. Nationals of Paris Convention countries, such as those of the USA and Japan, may own a CTM. (Article 5).

8. No home registration or application is needed.

appointed.

- 9. Priority of an earlier application can be claimed within six months (Article 29).
- 10. A CTM application can be filled by anyone and it is not necessary to appoint a

. Nationals of Paris Convention countries, such as those of the USA and Japan,

may own a CTM. (Article 5).

8. No hone registration or application is needed.

appointed.

European Representative for this purpose, although one must be subsequently

10. A CTM application can be filed by anyone and it is not necessary to appoint a

11. Applications can be filed in any of the 11 official languages of the EU, but a second language, which must be one of the 5 official languages of the CTMO, has to be designated on filing. These 5 official languages of the CTMO are nucleaged in the CLM abbrevation (see (Vincle 36)) English, French, German, Spanish and Italian.

the unitional registries, having been notified of the CTM by the CTMO, and except for Prance, Cermany and Italy, will also carry out a search of their

national registers. All these Search Reports will then be transmitted.

12. After filling, the CTMO will carry out a search of the Community Register: Also

12. After filing, the CTMO will carry out a search of the Community Register: Also the national registries, having been notified of the CTM by the CTMO, and except for France, Germany and Italy, will also carry out a search of their national registers. All these Search Reports will then be transmitted supposedly within 3 months - to the applicant by the CTMO. (Search fees are English ferench, Comar, Spanish and Italian. included in the CTM application fee) (Article 39). has to backigated on filling. These 6 official languages of the CTMO are second [anguage] which piest be one of the 5 official languages of the CTMO, 11. Applies fors can be filled in any of the 11 official languages of the EU, but a

13. It is essential to realise that these Search Reports are for information only and opening recurring learns (Vilicia) the CTMO will not refuse to register an application on the basis of earlier confusingly similar national or CTM applications or registrations. It is up to the proprietor of the conflicting mark to file an opposition after publication of the intended bulbose Asiate Beographical or time of brognerous or the Boogs application in the Community Trade Marks Bulletin.

indications which may serve, in trade, to designate the kind, qiphity, quantity,

any distinctive character; trade marks which coesist exclusively of signs or

and the Office will refuse applications for, e.g. trade marks which are devoid of

[4] Examination by the CTMO is for formal aspects only ("Absolute Grounds"),

14. Examination by the CTMO is for formal aspects only ("Absolute Grounds"), and the Office will refuse applications for, e.g. trade marks which are devoid of any distinctive character; trade marks which consist exclusively of signs or indications which may serve, in trade, to designate the kind, quality, quantity, intended purpose, value, geographical origin or time of production of the goods or of rendering the service, or other characteristics of the goods or service, and signs which consist exclusively of the shape of goods which is necessary to obtain a technical result. (Article 7).

13. It is essential to residisc that those Search Repeats are for juliorization only and

15. When the application is accepted by the CTMO - and probably not many rejections under "Absolute Grounds" will be sustained - the details will be published in the <u>Community Trade Marks Bulletin</u> in all 11 official languages of the EU! (Article 40).

marks exist.

of opposition to the registration may be filed with the CTMO. It is essential to monitor the Bulletin (e.g. via a Watching Service) to ensure that he conflicting

16. Willia a period of 3 mooths following the publication of the application, Notice

16. Within a period of 3 months following the publication of the application, Notice of opposition to the registration may be filed with the CTMO. It is essential to monitor the Bulletin (e.g. via a Watching Service) to ensure that no conflicting marks exist.

of the EMI (Article 40).

15. When the application is accepted by the CTMO - and probably not many rejections under "Absolute Grounds" will be sustained - the details will be published in the Community Trade Marks Bulletin in all 11 official languages.

- 17. Oppositions ("Relative Grounds for Refusal") can in particular be based upon:-
 - (a) prior similar CTM or national (including Benelux) trade mark registrations and applications (providing their later registration).

For a successful opposition, essentially there has to be identity or similarity of the CTM to the earlier trade mark and identity or similarity of the goods or services so that there "exists a likelihood of confusion on the part of the public (Yangle 8) in the territory in which the earlier trade mark is registered; the likelihood of confusion includes the likelihood of association with the earlier trademark."

(Article 8).

(b) earlier national or CTM marks when the goods are not similar but where

(Yames 8)

(b) earlier national or CTM marks when the goods are not similar but where

the mark has a "reputation in the Community" (or in a Member State).

III (pe permon), in which the carrier and many is registered; the the interpreted (Article 8).

services, so that there flexists a likelihood of confusion on the part of the public

A losing party in an Opposition can appeal to the Board of Appeals of the

CLMO.

For a successful opposition, essentially there has to be identify or similarity of

Terre letch policedor Anna sada Panak and a Daniellan

and applications (providing their later registration).

- (a) pridr similar CTM or nationol (including Benefur) gade mark registrations.
- 17. Oppositions ("Relative Grounds for Refusal") can in pairicular be based upon:-

20. A CTM Registration can be assigned in writing for some or all of the goods or

services for which it is registered and must be signed by the all the parties to the

contract (Article 17).

for further 10 year periods.

19. CTM Registration with perfectised for some or strong the goods for appending the CTM Registrations last for 10 years from the date of filing, and may be renewed

registered and for the whole or part of the EU. A licence may be exclusive or

non-exclusive.

18. Oppositions can only be filed in one of the 5 official languages of the CTMO.

20. A CTM Registration can be assigned in writing for some or all of the goods or services for which it is registered and must be signed by the all the parties to the contract (Article 17).

for, further 10 year periods.

- 21. A CTM Registration may be licensed for some or all of the goods for which it is registered and for the whole or part of the EU. A licence may be exclusive or non-exclusive.
- 18. Oppositions can only be filed in one of the 5 official languages of the CTMO.

22. A CTM may be <u>revoked</u> on application to the CTMO for 5 or more years nonuse in the Community, starting from the registration date. Use in one Member State alone will probably be sufficient to defeat a revocation action. In opposition proceedings, the proprietor is entitled to ask the opponent to prove use of his conflicting mark if it has been registered for not less than 5 years. In the absence of proof, the opposition shall be rejected (unless there are brober teasons for the non-nse). and infinite minimizement proceedings - either on "Absolute Grounds" (see 14 above) or on Invalidity can bediled with the CTMO, or can be brought as a counterclaim in

23. If, for example, the opposition period is missed a request for a Declaration of

- 22. A CTM may be revoked on application to the CTMO for 5 or more years not-
- use in the Community, starting from the registration date. Use in one Member
- State alone will probably be sufficient to defeat a revecation action. In
- opposition proceedings, the proprietor is entitled to ask the opponent to
- prove usp of his conflicting mark if it has been registered for not less than 5
- any of the grounds justifying opposition (see 17 above).
- infringement proceedings either on "Absolute Grounds" (see 14 above) or on
- proper reasons for the non-use).
- Invalidity can be filed with the CTMO, or can be brought as a counterclaim in
- 23. If, for example, the opposition period is missed a request for a Declaration of

24. Where the proprietor of a CTM or earlier national mark has acquiesced, for a period of 5 successive years, in the <u>use</u> of a later CTM in the EU while being aware of such use, he cannot object to the later CTM on the basis of his earlier CTM and the owner of the previous national registrations must be the same. trade mark (Article 53). the cost of many national renewal fees. At the moment the applicant for the priority) of the earlier actional registrations, which can thee be fropped saying The evener of the resulting CTM then chioys all the rights (inclinding the States can be claimed on or after the filling or registration of a QTM application.

26. The "semonty" of earlier identical national marks registered in [45] Member

26. The "seniority" of earlier identical national marks registered in EU Member

States can be claimed on or after the filing or registration of a CTM application.

The owner of the resulting CTM then enjoys all the rights (including the priority) of his earlier national registrations, which can then be dropped saving the cost of many national renewal fees. At the moment the applicant for the

CTM and the owner of the previous national registrations must be the same.

(Atticle 34 and 32). aware of such use, he cannot object to the later CTM on the basis of his carlier

period of 5 successive years, in the <u>use</u> of a later CTM in the EU while being

24. Where the proprietor of a CTM or earlier national mark has acquiesced, for a

have been put on the market. (Article [3),

27. The owner of a CTM is entitled to prevent third parties not having his consent from using in the course of trade the same or similar mark for the same or similar goods "where there exists a likelihood of confusion on behalf of the public; the likelihood of confusion includes the likelihood of association" between the marks. (Article 9).

28. Once goods bearing the mark have been put on the market in one EU Member State by the proprietor or his licensee, then they may freely circulate within the EU unless the condition of the goods has been changed or impaired after they have been put on the market. (Article 13).

between the marks. (Article 9).

public; the likelihood of confusion includes the likelihood of association? signar goods "where there exists a likelihood of confusion on behalf of the from using in the course of trade the same or similar mark for the same or

27. The owner of a CTM is entitled to prevent third parties not having his consent

SUMMARY

The Community trademark system offers a way of obtaining EU-wide trade mark protection with a single application filed through a single office with one subsequent renewal fee. If no oppositions are lodged, or if any oppositions are rejected, it will offer a very cost-effective method of obtaining trade mark protection throughout the entire EU, not to mention the administrative savings in the applicants own office. Furthermore, use in a single member State of the EU is likely to be sufficient to defeat any application for non-use.

It should be noted that the CTMO has received far mere applications dran

It should be noted that the CTMO has received far more applications than expected (probably about 40,000 by the time these slides are presented as against an estimate of 15,000 for the entire first year), and thus there may be significant delay in the hearing of any matters before the office - this remains to be seen.

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The Containing radomark system offices a kay of edialong EU-wide

COUNCIL REGULATION NO. 40/94 AND RULES NO. 2868/95.

By: David J. Wood, Pfizer Limited, Sandwich, Kent, Great Britain.

problems. These nervocal applications, however, retain the filing date of the original

OPENING bended exerts the photo (and of any actional particular exerts the analysis of the property of the pro

The Community Trade Mark Office formally opened for business on 1st April 1996 in Alicante, Spain. The correct name of the Office is "OHIM": Office for the Harmonisation of the Internal Market (Trade Marks and Designs)" but "CTMO" seems more convenient!

PERSONNEL of the July of the property of the personnel of the property of the personnel of the pe

The Office employs staff from Member States throughout the European Union. The President is Mr. J. Combaldieu (France), and Mr. A. Casado (Spain) and Mr. A. von Mühlendahl (Germany) are the Vice-Presidents. The head of examination is Mr. Vincent O'Reilly (Ireland).

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INTRODUCTION to applying the aboly to politically be diffuse and angin these

The principal feature of the Community Trade Mark (CTM) is that it stands or falls as a single unit. It has a unitary character and is not a bundle of national registrations as may be obtained via the Madrid Agreement or Protocol. A Community Trade Mark for goods or services may be obtained by a single filing (by a single applicant) for a registration covering the whole of the European Community. As such, it can only be registered, transferred, suspended, revoked or declared invalid for the whole of the Community. Existing national and Madrid trade mark registration systems will remain in place and the Community Trade Mark operates in tandem to these.

Thus a CTM covers 15 countries: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, Netherlands, Portugal, Spain, Sweden and the U.K.

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As a corollary, the unitary nature of the Community Trade Mark registration means that any single conflicting national registration could cause the whole application to fail. An applicant is then left with the option of converting the Community application to multiple national applications in those Member States where there are no conflict problems. These national applications, however, retain the filing date of the original Community Trade Mark application (and of any priority date, where claimed).

Unlike the Madrid system, no "home" application or registration is needed. Priority from an earlier national, Benelux or Madrid application can however be claimed within a 6-month period.

The Compacity Trade black Office dempite arrand by because at a second soften and a second some some in

Companies from Paris Convention countries - e.g. the USA and Japan 3-may, for example, own CTM's and the second se

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WHAT IS A COMMUNITY TRADE MARK? Last the second compact the second secon

Any sign capable of being represented graphically, including words, designs (including 3-dimensional), letters, numerals, and the shape of goods or their packaging, provided such signs are capable of distinguishing the goods or services of one undertaking from those of other undertakings.

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THE EFFECT OF A COMMUNITY TRADE MARK a helpetic for some backering of

The proprietor of a Community Trade Mark has exclusive rights to prevent third parties from using in the course of trade:

• any sign identical to the Community Trade Mark which relates to goods or services identical to those for which the Community Trade Mark is registered

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- any sign where confusion by the public if likely to arise because it is identical/similar to the Community Trade Mark and the identicality/similarity of the goods covered by the Community Trade Mark and the sign; and
- any sign identical/similar to the Community Trade Mark relating to goods or services which are not similar to those for which the Community Trade Mark is registered, but where the latter has a reputation in the Community and where use of

- the sign without due cause takes unfair advantage of, or is detrimental to, the distinctive character or the repute of the Community Trade Mark.
- The above rights will prevail from the date of publication of the registration.

 Although there is provision for compensation for infringement from the date of publication of the application, determination of such an issue may only be made after the registration is published.

However, the Community Trade Mark does not entitle its proprietor to prohibit a third party from using in the course of trade:

Importantly, the Oscarcount Trade Wask Office leadf will not refuge analications on the

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- its own name or address; across lanced so vice had santah yourstrace soing he sized
- indications of, inter alia, quality, geographical origin or other characteristics of the goods or services; and
- the Community Trade Mark to indicate the intended purpose of a product or service, in particular, as accessories or spare parts.

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LICENSING or Audit state of average of Countries of Countries Add from the state of the constant of the consta

A CTM may be licensed exclusively or non-exclusively for some or all of the goods/services for which it is registered for all or part of the E.U.

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EXHAUSTION OF RIGHTS of to anistilique legency birthete to birthe will redefine the

The Regulation recognises that the Community doctrine of exhaustion of rights will apply to the Community Trade Mark. Under this doctrine, an intellectual property right may not be relied upon against, for example, an importer, where the proprietor of that right has previously marketed the product in question in another Member State of the European Community or consented to such marketing. Thus, the rights conferred by a Community Trade Mark will be exhausted in relation to goods put on the Community market by the owner or with his consent. The proprietor remains, of course, able to oppose dealing in goods where their condition has been altered following initial marketing.

TERM OF REGISTRATION parameter makes exist order one morrison agis out

A Community Trade Mark will be valid for ten years from the date of filing of the application and may be renewed for further periods of ten years.

Alphoneh bleam is provision for conceptation for infilingement from the data of

application of the anciteation, determined modern of the necision of the section

Application for a Community Trade Mark may be filed at the Community Trade Mark office (CTMO - which is located in Spain), the Benelux trade mark office, or the national registry office of any Member State.

party from using in the course of trade:

Importantly, the Community Trade Mark Office itself will not refuse applications on the basis of prior conflicting rights, but only on formal grounds, e.g. if the mark is solely descriptive of the product or service or refers solely to its geographic origin, character or quality. The onus is on the proprietor of existing prior rights to oppose a registration of a Community Trade Mark application on the ground of potential conflict. Consequently, it is incumbent on trade mark owners to monitor the Community Trade Marks Bulletin (first edition probably Sept. '96) - e.g. via a Watching Service - to ensure that their rights are not overtaken by Community Trade Mark registrations and that the opportunity to oppose is not missed.

It is possible to base an opposition on an earlier conflicting community, national, Benelux, Madrid or Madrid Protocol application or registration assuming it is not invalid for 5 or more years non-use! Of course, the Madrid or Madrid Protocol marks must include an EU Member State. Non-registered distinctive marks may also be used as a basis for opposition, as may "well known" marks even where the goods are not similar.

As stated above, the Community examiner will only refuse to grant the application of its own motion on certain absolute grounds, such as lack of any distinctive character or where the mark has become generic. In view of these matters, Community Trade Mark applications are likely to result in a high number of oppositions. The Commission has estimated that 80% of all applications may be opposed!

Furcepan Constitution consequed to such marketing. Thus, the rights conferred by a

Incidentally the Community Trade Marks Journal will publish applications in all of the 11 official languages of the Community! became involid after constant Grounds include 5 years non-use from the date of constration, much has become That said, the Community Trade Mark Office will coperate a search of its com-Community Trade Mark Registry and will send the Search Report to the applicant. The CTMO will also inform the proprietors of earlier Community trade marks of any new conflicting application. Certain national registries will also product national search reports from their national register at the request of the CTMO these will then be sent to the applicant by the CTMO. The filing fee takes into account these search costs. France, Germany and Italy will not however carry our searches of its own national registers for the CTMO. These Search Reports are simply for the applicants information and I stress that the CTMO will not use them as a basis for rejecting the CTM application on the grounds of confusing similarity to an existing national registration. if the proprietor of an earlier wask does our oppose or apply to revoke a CTM within S A proprietor or dicensee of an earlier trade mark has three months following publication of a Community Trade Mark in the Community Trade Marks Bulletin to file an opposition. The losing party in an opposition may appeal to a Board of Appeal (12) 1111 Although the nature and cifect of a Community Trade Mark is prescribed by the A CTM application which has been refused can be converted into separate national applications in all Community countries except those where the prior right or rights existions and the daine ("Panel Areneged Vinnamael") source become larisdiction on deal with displace concerning the includenced and wildly of **SENIORITY** Committy Todd Marks.

When filing a CTM application, or within 2 months thereafter, or after registration, the "seniority" of earlier identical national registrations which include the same goods may be claimed, provided the applicant for the CTM and of the earlier national registrations is the same. The owner of the CTM may then enjoy all the rights given by the earlier national registrations, and the earlier national registrations can then be allowed to lapse with a significant saving in national renewal fees.

the defendent is detailed on libbe is not detailed in any of the Member States, the Measter State in which he has an establishment, failing that:

INVALIDITY (Registration was never valid) AND REVOCATION (Registration became invalid after registration)

Grounds include 5 years non-use from the date of registration, mark has become deceptive; and the registration was invalidly granted (e.g. bad faith of applicant, existence of an earlier conflicting mark).

[N.B. <u>Bona fide</u> use in a single Member State is probably sufficient to protect the CTM against cancellation throughout the whole Community].

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An application for revocation or invalidity can be made to the CTMO or to a national Court on the basis of a counterclaim in infringement proceedings.

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ACQUIESCENCE was gratained as of a believe quantities to sixtee on all nodes its sixtee.

If the proprietor of an earlier mark does not oppose or apply to revoke a CTM within 5 years of its use coming to his notice he will not thereafter be entitled to object.

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JURISDICATION: AND ENFORCEMENT and an activated and another government

Although the nature and effect of a Community Trade Mark is prescribed by the Regulation, enforcement of rights arising from the mark (i.e. remedies) is a matter for national law. To that end, Member States must designate national courts of first and second instance ("Community Trademark Courts") which will have exclusive jurisdiction to deal with disputes concerning the infringement and validity of Community Trade Marks.

As for jurisdiction, the Regulation recognises that the provisions of the Convention on Jurisdiction and the Enforcement of Judgements in Civil and Commercial matters signed in Brussels in 1968 ("the 1968 Brussels Convention") will apply unless otherwise specified in the Regulation. As a general rule, an action should be brought in the Community Trade Mark Court of a Member State where:

site protections with a policy and common that the common with a self-control of the control of

• the defendant is domiciled or, if he is not domiciled in any of the Member States, the Member State in which he has an establishment; failing that:-

- the Member State where the plaintiff is domiciled or if he is not domiciled in any of the member States, the Member State in which he has an establishment, and, failing that;
- the courts of the Member State where the Community Trade Mark office has its seat, that is, Spain.

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Where an action is brought in accordance with these rules, then the Community Trade Mark Courts' jurisdiction will extend to acts which take place within any of the territories of the Member States. In particular, it may grant a Community-wide injunction. Infringement actions may also be brought in the courts of the Member State in which the infringement is either committed or threatened. In such cases, the Court will only have jurisdiction in respect of the territory of the Member State in which it is situated.

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An individual may also apply to the Community Trade Mark office for revocation or a declaration of invalidity. The decisions of the various Divisions of the Community Trade Mark Office are subject to appeal to the Boards of Appeal. Decisions of the Boards of Appeal may in turn be challenged before the Court of First Instance of the European Court of Justice in Luxembourg on the same grounds for judicial review which apply to acts of other Community institutions.

COSTS

The costs of registering and maintaining Community Trade Mark applications should be significantly lower than the aggregate expense of a series of national applications. I remind you that 13 separate national applications are currently needed to cover the entire Community - the Benelux countries are covered by a single application. For example, the CTM application fee is ECU 975. (\$1200, £800 or 135,000 Yen) for up to 3 classes with additional classes at 200 ECU (\$250, £170 or 29,000 Yen). The registration fee is 1100 ECU (\$1400; £900 or 152,000 Yen). Renewal fees are ECU 2500 (\$3000, £2000 or 338,000 Yen) with additional classes at 500 ECU (\$600, £400 or 67,000 Yen). The opposition fee will be 350 ECU (\$450, £290 or 49,000 Yen). If we take into account a European trade mark law firm's fees for filing and registering a CTM, then if there are

no oppositions this should cost around £2500 (\$3800 or 422,000 Yen) as against, say, 10 1000 (\$19,000 or 2,112,000 Yen) for a series of national applications.

If however the CTM is refused after opposition and appeal and has to be converted to a production of the control of the conflicting series of national applications - minus the country or countries where the conflicting mark exists - there will be no saving.

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LANGUAGES

There are five official languages of the Community Trade Mark office: English, French, German, Spanish and Italian. All applications and proceedings can be conducted in one of these languages. Applications for a Community Trade Mark can, however, be filed in any of the 11 official EU languages and the Community Trade Mark office will arrange at its own cost for a translation into the Community Trade Mark office language nominated by the applicant as its second language. (a 2nd language must always be indicated on filing and this must be one of the five official languages of the Office). Opposition proceedings must be filed in an official language of the Office. If this is neither the language of filing nor the applicant's second nominated language, the opposing party will bear the cost of translation. The language into which the opposition is translated will become the language of the proceedings, unless the parties agree to a different official EU language.

INSPECTION OF FILES

Anyone may inspect the file of a published CTM application or registration.

PROCEEDINGS BEFORE THE OFFICE

These will normally be in writing and it is not expected that the Office will encourage oral proceedings in oppositions.

THE MADRID AGREEMENT AND PROTOCOL

These provide a system of obtaining an "international" registration via WIPO in Geneva based on a home registration or application. The U.S. is not, nor does at present propose to be, a member of these systems. In any event, if one files an international mark on the basis of a home application and this is subsequently restricted, the same restriction will

of necessity extend to the international marking. This could be a problem to U.S.		
applicants because the U.S.A. is a country which generally only permits registration for		
a narrow specification of goods or services.	bodo comingo de alguno el como el 190 mente como desenvalentente. 18 april 1919 en 1918 de ante en 1918 la constanta de como en 1919 en 1919 en 1	
encountered, the costs may be tright if the	or substrated appusition proceedings, it is,	
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Community Trade Mark application in due of	throughout inc European Union. Only strio s application filed through one associate——	
crass will be incurred in addition to the	soft fewerica and and accompanies end thive	
THE COMMUNITY PATENT SYSTEM		
O.K You've all heard about Communit	y Trade Mark Applications - what about a	
single unitary Community Patent?	A Compositivy Trade Wark will be a	
Frade Marks, a large nembar of oppositions are anticipated.	valuable rigir that is offective throughout the European Halon and is readily	
This does not seem to be making much head		
attempting to reactivate the process of	ratification of the Agreement relating to	
Community Patents signed in 1989 and to sp	peed up its entry into force supplied a local	
propriotor will have to pay the Oppopents	the European Universellings to defeat an	
olase boxed a massissor NUMBER OF APPLICATIONS	sopheration for revocation on the ground of approxise to book used.	
The CTMO has been swamped by applicat		
	A COMMITTED RECORDING AND AND AND AND AND A COMMITTED AND AND AND AND AND AND AND AND AND AN	
this presentation is given, they will have received more than 40,000 applications		
whereas they expected a maximum of 15,00	o in the entire first year of operation!	
Constrainty Trade Mark Application being	रहा हो साम हिला किए केर अध्यक्त राजेर हो किए सह	
Certainly this has meant a considerable d	elay in the issuance of filing receipts for	
applications filed directly with the Alicante		
able to carry our any searches of the Commu	inity Register before September 1996.	
The largest percentage of applications is believed to come from the USA (about 35%)		
with Japan far behind (say 5%): I aso so to so s	The CTM application for includes the cost of Search Reports of the Lammonity and National Registers (miner lambae Germany and Germany and Italy a which will be seen to the applicant by the CTMC	
the basis of existing confusingly similar national rights without a formal oncosion.	• • • • • • • • • • • • • • • • • • •	
	The USA is solu memore of the Madrid	
	Agreentert or Madrid Protocol and thus the CTM system is the only way of obtaining European-wide protection vis a	

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SUPPLIES OF THE STATE OF THE ST	
In favour of a Community Trade Mark	Against a Community Trade Mark
If the mark does not encounter objections or substantial opposition proceedings, it is an extremely cost-effective way of achieving trade mark registration throughout the European Union. Only one application filed through one associate with one registration and one renewal fee is required, saving significant administration costs.	If substantial opposition proceedings are encountered, the costs may be high; if the application is refused, national applications can be made ("conversion") with the same priority as the Community Trade Mark Application but national filing costs will be incurred in addition to the wasted cost of the Community Trade Mark Application. Significant delay will also occur.
A Community Trade Mark will be a valuable right that is effective throughout the European Union and is readily	Because of the importance of Community Trade Marks, a large number of oppositions are anticipated.
enforceable in national courts throughout	bank of the substance of substance and all the
the European Union. Pan-European	
injunctions may be granted.	The section is before the second control of the control of
Use of a trade mark in a single country of	If an opposition is successful, the
the European Union is likely to defeat an	proprietor will have to pay the Opponent's
application for revocation on the ground of	costs on a fixed scale.
non-use even if the mark has not been used	PROVINCE SEARCH SAFERS
in all European Union countries. This is	s financial occurs on this she CVIII. skill
not the case with national registrations	
which must be used in each country. A Community Trade Mark can claim	A prior rational right in any one country in
"seniority" from earlier national	A prior national right in any one country in the European Union can lead to a
registrations for the same mark for the	Community Trade Mark Application being
same goods/services and so it will be	rejected in opposition proceedings, leaving
possible to abandon these earlier national	the applicant with the expensive option of
trade mark registrations in favour of a wife	conversion to national applications minus
Community Trade Mark without loss of	the country or countries where the
rights, thereby saving renewal fees and	conflicting mark(s) already exist.
administration costs.	The largest percentage of application. It be
The CTM application fee includes the cost	You can't ignore it! It is absolutely
of Search Reports of the Community and National Registers (minus France,	essential to monitor the Community Trade Marks Bulletin - e.g. via a Watching
Germany and Italy), which will be sent to	Service - for conflicting marks as the
the applicant by the CTMO.	CTMO will not refuse an application on
	the basis of existing confusingly similar
	national rights without a formal
	opposition.
The USA is not a member of the Madrid	
Agreement or Madrid Protocol and thus	·
the CTM system is the only way of	
obtaining European-wide protection via a single application.	
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14 January 1994

Official Journal

of the European Communities

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Legislation

English edition

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Contents 1. Acts whose publication is obligatory

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Whereas the Community has retring in tride marks nevertheless dour not replace, the lover of the liferable branch or made marks, whereas it would not in fact appear to be justified to require motionalizing to apply for newleasion of their trule metric as Community trade marks which its motional trade marks are continued to be necessary for those underphilage which its new years procession of their made marks as Community leven.

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(*† 0) No C 35k, 31 (2. 1980. p. 1 and Oj ko C 229, 33, 3.) 1994. s. t.

ON MORE DESTRUCTION OF MORE DESTRUCTIONS

Acts whose titles are printed in light type are those relating to day-to-day management of agricultural matters, and are generally valid for a limited period.

The titles of all other Acts are printed in bold type and preceded by an asterisk.

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(Acts whose publication is obligatory)

COUNCIL REGULATION (EC) No 40/94

of 20 December 1993

on the Community trade mark

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THE COUNCIL OF THE EUROPEAN UNION,

Having regard to the Treaty establishing the European Community, and in particular Article 235 thereof,

Having regard to the proposal from the Commission (1),

Having regard to the opinion of the European Parliament (2),

Having regard to the opinion of the Economic and Social Committee (3),

Whereas it is desirable to promote throughout the Community a harmonious development of economic activities and a continuous and balanced expansion by completing an internal market which functions properly and offers conditions which are similar to those obtaining in a national market; whereas in order to create a market of this kind and make it increasingly a single market, not only must be barriers to free movement of goods and services be removed and arrangements be instituted which ensure that competition is not distorted, but, in addition, legal conditions must be created which enable undertakings to adapt their activities to the scale of the Community, whether in manufacturing and distributing goods or in providing services; whereas for those purposes, trade marks enabling the products and services of undertakings to be distinguished by identical means throughout the entire Community, regardless of frontiers, should feature amongst the legal instruments which undertakings have at their disposal;

Whereas action by the Community would appear to be necessary for the purpose of attaining the Community's

said objectives; whereas such action involves the creation of Community arrangements for trade marks whereby undertakings can by means of one procedural system obtain. Community trade marks to which uniform protection is given and which produce their effects throughout the entire area of the Community; whereas the principle of the unitary character of the Community trade mark thus stated will apply unless otherwise provided for in this Regulation;

Whereas the barrier of territoriality of the rights conferred on proprietors of trade marks by the laws of the Member States cannot be removed by approximation of laws; whereas in order to open up unrestricted economic activity in the whole of the common market for the benefit of undertakings, trade marks need to be created which are governed by a uniform Community law directly applicable in all Member States;

Whereas since the Treaty has not provided the specific powers to establish such a legal instrument, Article 235 of the Treaty should be applied;

Whereas the Community law relating to trade marks nevertheless does not replace the laws of the Member States on trade marks; whereas it would not in fact appear to be justified to require undertakings to apply for registration of their trade marks as Community trade marks; whereas national trade marks continue to be necessary for those undertakings which do not want protection of their trade marks at Community level;

Whereas the rights in a Community trade mark may not be obtained otherwise than by registration, and registration is to be refused in particular if the trade mark is not distinctive, if it is unlawful or if it conflicts with earlier rights;

(1) OJ No C 351, 31. 12. 1980, p. 1 and OJ No C 230, 31. 8. 1984, p. 1.

(2) OJ No C 307, 14. 11. 1983, p. 46 and OJ No C 280,

28. 10. 1991, p. 153. (1) Of No C 310, 30. 11. 1981, p. 22.

Whereas the protection afforded by a Community trade mark, the function of which is in particular to guarantee

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the trade mark as an indication of origin, is absolute in the case of identity between the mark and the sign and the goods or services; whereas the protection applies also in cases of similarity between the mark and the sign and the goods or services; whereas an interpretation should be given of the concept of similarity in relation to the likelihood of confusion; whereas the likelihood of confusion, the appreciation of which depends on numerous elements and, in particular, on the recognition of the trade mark on the market, the association which can be made with the used or registered sign, the degree of similarity between the trade mark and the sign and between the goods or services identified, constitutes the specific condition for such protection;

Whereas it follows from the principle of free flow of goods that the proprietor of a Community trade mark must not be entitled to prohibit its use by a third party in relation to goods which have been put into circulation in the Community, under the trade mark, by him or with his consent, save where there exist legitimate reasons for the proprietor to oppose further commercialization of the goods;

Whereas there is no justification for protecting Community trade marks or, as against them, any trade mark which has been registered before them, except where the trade marks are actually used;

Whereas a Community trade mark is to be regarded as an object of property which exists separately from the undertakings whose goods or services are designated by it; whereas accordingly, it must be capable of being transferred, subject to the overriding need to prevent the public being misled as a result of the transfer. It must also be capable of being charged as security in favour of a third party and of being the subject matter of licences;

Whereas administrative measures are necessary at Community level for implementing in relation to every trade mark the trade mark law created by this Regulation; whereas it is therefore essential, while retaining the Community's existing institutional structure and balance of powers, to establish an Office for Harmonization in the Internal Market (trade marks and designs) which is independent in relation to technical matters and has legal, administrative and financial autonomy; whereas to this end it is necessary and appropriate that it should be a body of the Community having legal personality and exercising the implementing powers which are conferred on it by this Regulation, and that it should operate within the framework of Community law without detracting from the competencies exercised by the Community institutions;

Whereas it is necessary to ensure that parties who are affected by decisions made by the Office are protected by the law in a manner which is suited to the special character of trade mark law; whereas to that end provision is made for an appeal to lie from decisions of the examiners and of the various divisions of the Office;

whereas if the department whose decision is contested does not rectify its decision it is to remit the appeal to a Board of Appeal of the Office, which is to decide on it; whereas decisions of the Boards of Appeal are, in turn, amenable to actions before the Court of Justice of the European Communities, which has jurisdiction to annul or to alter the contested decision;

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whereas however, the Community brokering protection Whereas under Council Decision 88/591/ECSC, EEG, Euratom of 24 October 1988 establishing a Court of First Instance of the European Communities (1), as amended by Decision 93/350/Euratom, ECSC, EEC of 8 June 1993 (2), that Court shall exercise at the first instance the jurisdiction conferred on the Court of Justice by the Treaties establishing the Communities - with particular regard to appeals lodged under the second subparagraph of Article 173 of the EC Treaty - and by the acts adopted in implementation thereof, save as otherwise provided in an act setting up a body governed by Community law; whereas the jurisdiction which this Regulation confers on the Court of Justice to cancel and reform decisions of the appeal courts shall accordingly be exercised at the first instance by the Court in accordance with the above Decision;

Whereas in order to strengthen the protection of Community trade marks the Member States should designate, having regard to their own national system, as limited a number as possible of national courts of first and second instance having jurisdiction in matters of infringement and validity of Community trade marks;

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Whereas decisions regarding the validity and infringement of Community trade marks must have effect and cover the entire area of the Community, as this is the only way of preventing inconsistent decisions on the part of the courts and the Office and of ensuring that the unitary character of Community trade marks is not undermined; whereas the rules contained in the Brussels Convention of Jurisdiction and the Enforcement of Judgments in Civil and Commercial Matters will apply to all actions at law relating to Community trade marks, save where this Regulation derogates from those rules;

Whereas contradictory judgments should be avoided in actions which involve the same acts and the same parties and which are brought on the basis of a Community trade mark and parallel national trade marks; whereas for this purpose, when the actions are brought in the same Member State, the way in which this is to be achieved is a matter for national procedural rules, which are not prejudiced by this Regulation, whilst when the actions are brought in different Member States, provisions modelled on the rules on lis pendens and

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⁽f) OJ No L 319, 25, 11, 1988, p. 1 and corrigendum in OJ No L 241, 17, 8, 1989, p. 4

^{(2):} OJ No La144, 16: 6: 1993, p. 21; and they said before and

related actions of the abovementioned Brussels Convention appear appropriate; which is which as each work gi na silibyo na sa siskov kostilo oda vo tovnija da tem B

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Whereas in order to guarantee the full autonomy and independence of the Office, it is considered necessary to grant it an autonomous budget whose revenue comes principally from fees paid by the users of the system; whereas however, the Community budgetary procedure remains applicable as far as any subsidies chargeable to general budget of the European Communities are concerned; whereas moreover, the auditing of accounts should be undertaken by the Court of Auditors;

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Whereas implementing measures are required for the Regulation's application, particularly as regards the adoption and amendment of fees regulations and an Implementing Regulation; whereas such measures should be adopted by the Commission, assisted by a Committee composed of representatives of the Member States, in accordance with the procedural rules laid down in Article 2, procedure III(b), of Council Decisions 87/373/EEC of 13 July 1987 laying down the procedures for the exercise of implementing powers conferred on the Commission (1), happened to their will date where he has

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HAS ADOPTED THIS REGULATION:

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Community trade mark

1. A trade mark for goods or services which is registered in accordance with the conditions contained in this Regulation and in the manner herein provided is hereinafter referred to as a 'Community trade mark';

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2. A Community trade mark shall have a unitary character. It shall have equal effect throughout the Community: it shall not be registered, transferred or surrendered or be the subject of a decision revoking the rights of the proprietor or declaring it invalid, nor shall its use be prohibited, save in respect of the whole Community. This principle shall apply unless otherwise provided in this Regulation.

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Office

An Office for Harmonization in the Internal Market (trade marks and designs), hereinafter referred to as 'the Office', is hereby established.

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For the purpose of implementing this Regulation, companies or firms and other legal bodies shall be regarded as legal persons if, under the terms of the law governing them, they have the capacity in their own name to have rights and obligations of all kinds, to make contracts or accomplish other legal acts and to sue and be sued.

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THE LAW RELATING TO TRADE MARKS

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DEFINITION OF A COMMUNITY TRADE MARK OBTAINING A COMMUNITY TRADE MARK

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Signs of which a Community trade mark may consist

A Community trade mark may consist of any signs capable of being represented graphically, particularly words, including personal names, designs, letters, numerals, the shape of goods or of their packaging, provided that such signs are capable of distinguishing the

goods or services of one undertaking from those of other undertakings.

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Persons who can be proprietors of Community trade to chresional companio en **marks** di biograppio encontendo

1. The following natural or legal pesons, including authorities established under public law, may be proprietors of Community trade marks:

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- (a) nationals of the Member States; or well and well add
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- (b) nationals of other States which are parties to the Paris Convention for the protection of industrial property, hereinafter referred to as 'the Paris Convention'; or
- (c) nationals of States which are not parties to the Paris Convention who are domiciled or have their seat or who have real and effective industrial or commercial establishments within the territory of the Community or of a State which is party to the Paris Convention;
- (d) nationals, other than those referred to under subparagraph (c), of any State which is not party to the Paris Convention and which, according to published findings, accords to nationals of all the Member States the same protection for trade marks as it accords to its own nationals and, if nationals of the Member States are required to prove registration in the country of origin, recognizes the registration of Community trade marks as such proof.
- 2. With respect to the application of paragraph 1, stateless persons as defined by Article 1 of the Convention relating to the Status of Stateless Persons signed at New York on 28 September 1954, and refugees as defined by Article 1 of the Convention relating to the Status of Refugees signed at Geneva on 28 July 1951 and modified by the Protocol relating to the Status of Refugees signed at New York on 31 January 1967, shall be regarded as nationals of the country in which they have their habitual residence.
- 3. Persons who are nationals of a State covered by paragraph 1 (d) must prove that the trade mark for which an application for a Community trade mark has been submitted is registered in the State of origin, unless, according to published findings, the trade marks of nationals of the Member States are registered in the State of origin in question without proof of prior registration as a Community trade mark or as a national trade mark in a Member State.

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Means whereby a Community trade mark is obtained

A Community trade mark shall be obtained by registration.

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Absolute grounds for refusal

- 1. The following shall not be registered:
- (a) signs which do not conform to the requirements of Article 4;
- (b) trade marks which are devoid of any distinctive character; and all managed to common and
- (c) trade marks which consist exclusively of signs or indications which may serve, in trade, to designate the kind, quality, quantity, intended purpose, value,

- geographical origin or the time of production of the goods or of rendering of the service, or other characteristics of the goods or service;
- (d) trade marks which consist exclusively of signs or indications which have become customary in the current language or in the bona fide and established practices of the trade;
- (e) signs which consist exclusively of:
- (i) the shape which results from the nature of the
 - (ii) the shape of goods which is necessary to obtain a technical result; or
 - (iii) the shape which gives substantial value to the goods;
- (f) trade marks which are contrary to public policy or to accepted principles of morality;
- (g) trade marks which are of such a nature as to deceive the public, for instance as to the nature, quality or geographical origin of the goods or service;
- (h) trade marks which have not been authorized by the competent authorities and are to be refused pursuant to Article 6ter of the Paris Convention;
- (i) trade marks which include badges, emblems or escutcheons other than those covered by Article 6ter of the Paris Convention and which are of particular public interest, unless the consent of the appropriate authorities to their registration has been given.
- 2. Paragraph 1 shall apply notwithstanding that the grounds of non-registrability obtain in only part of the Community.
- 3. Paragraph 1 (b), (c) and (d) shall not apply if the trade mark has become distinctive in relation to the goods or services for which registration is requested in consequence of the use which has been made of it.

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Relative grounds for refusal

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- 1. Upon opposition by the proprietor of an earlier trade mark, the trade mark applied for shall not be registered:
- (a) if it is identical with the earlier trade mark and the goods or services for which registration is applied for are identical with the goods or services for which the earlier trade mark is protected;
- (b) if because of its identity with or similarity to the earlier trade mark and the identity or similarity of the goods or services covered by the trade marks there exists a likelihood of confusion on the part of the public in the territory in which the earlier trade mark is protected; the likelihood of confusion includes the likelihood of association with the earlier trade mark.

- 2. for the purposes of paragraph 1, 'Earlier trade marks' means:
- (a) trade marks of the following kinds with a date of application for registration which is earlier than the date of application for registration of the Community trade mark, taking account, where appropriate, of the priorities claimed in respect of those trade marks:
 - (i) Community trade marks;
 - (ii) trade marks registered in a Member State, or, in the case of Belgium, the Netherlands or Luxembourg, at the Benelux Trade Mark Office;
 - (iii) trade marks registered under international arrangements which have effect in a Member State;
- (b) applications for the trade marks referred to in subparagraph (a), subject to their registration;
- (c) trade marks which, on the date of application for registration of the Community trade mark, or, where appropriate, of the priority claimed in respect of the application for registration of the Community trade mark, are well known in a Member State, in the sense in which the words 'well known' are used in Article 6 bis of the Paris Convention.
- 3. Upon opposition by the prorietor of the trade mark, a trade mark shall not be registered where an agent or representative of the proprietor of the trade mark applies for registration thereof in his own name without the proprietor's consent, unless the agent or representative justifies his action.
- 4. Upon opposition by the proprietor of a non-registered trade mark or of another sign used in the course of trade of more than mere local significance, the trade mark applied for shall not be registered where and to the extent that, pursuant to the law of the Member State governing that sign,
- (a) rights to that sign were acquired prior to the date of application for registration of the Community trade mark, or the date of the priority claimed for the application for registration of the Community trade mark;
- (b) that sign confers on its proprietor the right to prohibit the use of a subsequent trade mark.
- 5. Furthermore, upon opposition by the proprietor of an earlier trade mark within the meaning of paragraph 2, the trade mark applied for shall not be registered where it is identical with or similar to the earlier trade mark and is to be registered for goods or services which are not similar to those for which the earlier trade mark is registered, where in the case of an earlier Community trade mark the trade mark has a reputation in the Community and, in the case of an earlier national trade mark, the trade mark has a reputation in the Member State concerned and where the use without due cause of the trade mark applied for would take unfair advantage of, or be detrimental to, the distinctive character or the repute of the earlier trade mark.

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EFFECTS OF COMMUNITY TRADE MARKS

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Rights conferred by a Community trade mark

- 1. A Community trade mark shall confer on the proprietor exclusive rights therein. The proprietor shall be entitled to prevent all third parties not having his consent from using in the course of trade:
- (a) any sign which is identical with the Community trade mark in relation to goods or services which are identical with those for which the Community trade mark is registered;
- (b) any sign where, because of its identity with or similarity to the Community trade mark and the identity or similarity of the goods or services covered by the Community trade mark and the sign, there exists a likelihood of confusion on the part of the public; the likelihood of confusion includes the likelihood of association between the sign and the trade mark;
- (c) any sign which is identical with or similar to the Community trade mark in relation to goods or services which are not similar to those for which the Community trade mark is registered, where the latter has a reputation in the Community and where use of that sign without due cause takes unfair advantage of, or is detrimental to, the distinctive character or the repute of the Community trade mark.
- 2. The following, inter alia, may be prohibited under paragraph 1:
- (a) affixing the sign to the goods or to the packaging
- (b) offering the goods, putting them on the market or stocking them for these purposes under that sign, or offering or supplying services thereunder;
- (c) importing or exporting the goods under that sign;
- (d) using the sign on business papers and in advertising.
- 3. The rights conferred by a Community trade mark shall prevail against third parties from the date of publication of registration of the trade mark. Reasonable compensation may, however, be claimed in respect of matters arising after the date of publication of a Community trade mark application, which matters would, after publication of the registration of the trade mark, be prohibited by virtue of that publication. The court seized of the case may not decide upon the merits of the case until the registration has been published.

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Reproduction of Community trade marks in dictionaries

If the reproduction of a Community trade mark in a dictionary, encyclopaedia or similar reference work gives

the impression that it constitutes the generic name of the goods or services for which the trade mark is registered, the publisher of the work shall, at the request of the proprietor of the Community trade mark, ensure that the reproduction of the trade mark at the latest in the next edition of the publication is accompanied by an indication that it is a registered trade mark.

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Prohibition on the use of a Community trade mark registered in the name of an agent or representative

in oils of benesties, John obest a lo silveril Where a Community trade mark is registered in the name of the agent or representative of a person who is the proprietor of that trade mark, without the proprietor's authorization, the latter shall be entitled to oppose the use of his mark by his agent or representative if he has not authorized such use, unless the agent or representative justifies his action.

Article 12

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Limitation of the effects of a Community trade mark

- A Community trade mark shall not entitle the proprietor to prohibit a third party from using in the course of
- (a) his own name or address;
- (b) indications concerning the kind, quality, quantity, intended purpose, value, geographical origin, the time of production of the goods or of rendering of the service, or other characteristics of the goods or
- (c) the trade mark where it is necessary to indicate the intended purpose of a product or service, in particular as accessories or spare parts, Date (Newtones) A. J.

provided he uses them in accordance with honest practices in industrial or commercial matters.

authorities of the blendow Batter Acteumined to authorities accompance with Article to what have exclusive Article 13

Exhaustion of the rights conferred by a Community trade inglighted mark responsible of the section of

- 1. A Community trade mark shall not entitle the proprietor to prohibit its use in relation to goods which have been put on the market in the Community under that trade mark by the proprietor or with his consent.
- stracki odo od vsko pomaco a bair doc Pall I 2. Paragraph 1 shall not apply where there exist legitimate reasons for the proprietor to oppose further commercialization of the goods, especially where the condition of the goods is changed or impaired after they have been put on the market ware not be no well theories.

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Complementary application of national law relating to infringement

- 1. The effects of Community trade marks shall be governed solely by the provisions of this Regulation. In other respects, infringement of a Community trade mark shall be governed by the national law relating to infringement of a national trade mark in accordance with the provisions of Title X.
- 2. This Regulation shall not prevent actions concerning a Community trade mark being brought under the law of Member States relating in particular to civil liability and unfair competition.
- 3. The rules of procedure to be applied shall be determined in accordance with the provisions of Title Xxvi प्रकारिकात्वा अर्थन्त्र इस्ते का प्रांतुक्त विस्ते । सेव्यावा स्वयू वार्याकृतकोत्रा स्वर्धे दर पृथित्र स्वया । विस्तु क्रांतिको (विकासीवासी

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USE OF COMMUNITY TRADE MARKS

Article 15

Use of Community trade marks

- 1. If, within a period of five years following registration, the proprietor has not put the Community trade mark to genuine use in the Community in connection with the goods or services in respect of which it is registered, or if such use has been suspended during an uninterrupted period of five years, the Community trade mark shall be subject to the sanctions provided for in this Regulation, unless there are proper reasons for non-use.
- 2. The following shall also constitute use within the meaning of paragraph 1:

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- (a) use of the Community trade mark in a form differing in selements which do not alter the distinctive he character of the mark in the form in which it was wregistered; en terberg od. Eo engrangis od sucrepto d'ada
- (b) affixing of the Community trade mark to goods or to the packaging thereof in the Community solely for export purposes. from Poor retenent our nort meis is street V. A
- 3. Use of the Community trade mark with the consent of the proprietor shall be deemed to constitute use by the proprietor. १९४४ वर का कोलावा करेंग्रेड के ताल्के के क्रियेंचे स्थापन क of sinch it is registered, the Oilin must par regular in

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COMMUNITY TRADE MARKS AS OBJECTS OF PROPERTY

3. Vi stquest of **o**ne of the parties arounder shall be Son Article 16. Various and an ensuron

Dealing with Community trade marks as national trade en et sich der der der K<mark>eitschlicht inne</mark> der Siche der Geberkender der Bereitstere der Geberkender der Bereitstere der Geberkender der Geberkende
1. Unless Articles 17 to 24 provide otherwise, a Community trade mark as an object of property shall be

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dealt with in its entirety, and for the whole area of the Community, as a national trade mark registered in the Member State in which, according to the Register of Community trade marks,

- (a) the proprietor has his seat or his domicile on the relevant date; or
- (b) where subparagraph (a) does not apply, the proprietor has an establishment on the relevant date.
- 2. In cases which are not provided for by paragraph 1, the Member State referred to in that paragraph shall be the Member State in which the seat of the Office is situated.
- 3. If two or more persons are mentioned in the Register of Community trade marks as joint proprietors, paragraph 1 shall apply to the joint proprietor first mentioned; failing this, it shall apply to the subsequent joint proprietors in the order in which they are mentioned. Where paragraph 1 does not apply to any of the joint proprietors, paragraph 2 shall apply.

Article 17

Transfer

- 1. A Community trade mark may be transferred, separately from any transfer of the undertaking, in respect of some or all of the goods or services for which it is registered.
- 2. A transfer of the whole of the undertaking shall include the transfer of the Community trade mark except where, in accordance with the law governing the transfer, there is agreement to the contrary or circumstances clearly dictate otherwise. This provision shall apply to the contractual obligation to transfer the undertaking.
- 3. Without prejudice to paragraph 2, an assignment of the Community trade mark shall be made in writing and shall require the signature of the parties to the contract, except when it is a result of a judgment; otherwise it shall be void.

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- 4. Where it is clear from the transfer documents that because of the transfer the Community trade mark is likely to mislead the public concerning the nature, quality or geographical origin of the goods or services in respect of which it is registered, the Office shall not register the transfer unless the successor agrees to limit registration of the Community trade mark to goods or services in respect of which it is not likely to mislead
- 5. On request of one of the parties a transfer shall be entered in the Register and published.
- 6. As long as the transfer has not been entered in the Register, the successor in title may not invoke the rights arising from the registration of the Community trade mark.

- 7. Where there are time limits to be observed vis-à-vis the Office, the successor in title may make the corresponding statements to the Office once the request for registration of the transfert has been received by the Office.
- 8. All documents which require notification to the proprietor of the Community trade mark in accordance with Article 77 shall be addressed to the person registered as proprietor.

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Transfer of a trade mark registered in the name of an make only of houseless a lagent only transfer on a trade of the second of

Where a Community trade mark is registered in the name of the agent or representative of a person who is the proprietor of that trade mark, without the proprietor's authorization, the latter shall be entitled to demand the assignment in his favour of the said registration, unless such agent or representative justifies his action.

Article 19

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- 1. A Community trade mark may, independently of the undertaking, be given as security or be the subject of rights in rem.
- 2. On request of one of the parties, rights mentioned in paragraph 1 shall be entered in the Register and published.

Article 20

and managing and the Levy of execution of their memory was to be

- 1. A Community trade mark may be levied in execution.
- 2. As regards the procedure for levy of execution in respect of a Community trade mark, the courts and authorities of the Member States determined in accordance with Article 16 shall have exclusive jurisdiction.
- 3. On request of one the parties, levy of execution shall be entered in the Register and published.

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Bankruptcy or like proceedings

1. Until such time as common rules for the Member States in this field enter into force, the only Member State in which a Community trade mark may be involved in bankruptcy or like proceedings shall be that in which such proceedings are first brought within the meaning of national law or of conventions applicable in this field.

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2. Where a Community trade mark is involved in bankruptcy or like proceedings, on request of the competent national authority an entry to this effect shall be made in the Register and published.

Article 22

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1. A Community trade mark may be licensed for some or all of the goods or services for which it is registered and for the whole or part of the Community. A licence may be exclusive or non-exclusive. Accessing a min middle

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dis Sex application.

2. The proprietor of a Community trade mark may invoke the rights conferred by that trade mark against a licensee who contravenes any provision in his licensing contract with regard to its duration, the form covered by the registration in which the trade mark may be used, the scope of the goods or services for which the licence is granted, the territory in which the trade mark may be affixed, or the quality of the goods manufactured or of the services provided by the licensee

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- 3. Without prejudice to the provisions of the licensing contract, the licensee may bring proceedings for infringement of a Community trade mark only if its proprietor consents thereto. However, the holder of an exclusive licence may bring such proceedings if the proprietor of the trade mark, after formal notice, does not himself bring intringement proceedings within an appropriate period. a mana sheque moneyer nel anglesisione
- gerbaraca adgle yet gararet moraka lan nortzeglei. 4. A licensee shall, for the purpose of obtaining compensation for damage suffered by him, be entitled to intervene in infringement proceedings brought by the proprietor of the Community trade mark.

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5. On request of one of the parties the grant or transfer of a licence in respect of a Community trade mark shall be entered in the Register and published.

Article 23 de Applications subsettigate d

ed finale gene Effects vis-à-vis-third parties and selection

- 1. Legal acts referred to in Article 17, 19 and 22 concerning a Community trade mark shall only have effects vis-à-vis third parties in all the Member States after entry in the Register. Nevertheless, such an act, before it is so entered, shall have effect vis-à-vis third parties who have acquired rights in the trade mark after the date of that act but who knew of the act at the date on which the rights were acquired.
- 2. Paragraph 1 shall not apply in the case of a person who acquires the Community trade mark or a right concerning the Community trade mark by way of transfer of the whole of the undertaking or by any other universal succession.
- 3. The effects vis-à-vis third parties of the legal acts referred to in Article 20 shall be governed by the law of the Member State determined in accordance with Article 16. els divides to paratism as easistant to remove this bo said is (b).
- 4. Until such time as common rules for the Member States in the field of bankruptcy enter into force, the effects vis-à-vis third parties of bankruptcy or like proceedings shall be governed by the law of the Member State in which such proceedings are first brought within the meaning of national law or of conventions applicable in this field.

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The application for a Community trade mark as an object of property

Articles 16 to 23 shall apply to applications for Community trade marks

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SECTION 1

FILING OF APPLICATIONS AND THE CONDITIONS WHICH GOVERN THEM

to appealing our to expense Article 250 galanch manifequent, vinding to polymerable in all their monorliggs are interest to operate with I Filing of applications at the property of the

arti la cita de con come con come con con el marcil artico 1. An application for a Community trade mark shall be filed, at the choice of the applicant, a and of neiter logic

- (a) at the Office; or sengration become property
- (b) at the central industrial property office of a Member State or at the Benelux Trade Mark Office. An application filed in this way shall have the same effect as if it had been filed on the same date at the Office.
- cheman socialização electro do alebación de especto en sistembre ana considerá (S 2. Where the application is filed at the central industrial property office of a Member State or at the Benelux Trade Mark Office, that office shall take all steps to

forward the application to the Office within two weeks after filing. It may charge the applicant a fee which shall not exceed the administrative costs of receiving and forwarding the application.

3. Applications referred to in paragraph 2 which reach the Office more than one month after filing shall be deemed withdrawn.

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4. Ten years after the entry into force of this Regulation, the Commission shall draw up a report on the operation of the system of filing applications for Community trade marks, together with any proposals for modifying this system.

Article 26

udgiConditions with which applications must comply disto war and disease days a reference of the personness.

- 1. An application for a Community trade mark shall contain:
- (a) a request for the registration of a Community trade mark;
- (b) information identifying the applicant;
- (c) a list of the goods or services in respect of which the registration is requested;
- (d) a representation of the trade mark.
- 2. The application for a Community trade mark shall be subject to the payment of the application fee and, when appropriate, of one or more class fees.
- An application for a Community trade mark must comply with the conditions laid down in the implementing Regulation referred to in Article 140.

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Date of filing

The date of filing of a Community trade mark application shall be the date on which documents containing the information specified in Article 26 (1) are filed with the Office by the applicant or, if the application has been filed with the central office of a Member State or with the Benelux Trade Mark Office, with that office, subject to payment of the application fee within a period of one month of filing the abovementioned documents.

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sate to wrote trees of Classification:

Goods and services in respect of which Community trade marks are applied for shall be classified in conformity with the system of classification specified in the Implementing Regulation. ni ivovinarai ei Washo SECTION 2 na spracle a sassiWi

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Article 29

Right of priority

- 1. A person who has duly filed an application for a trade mark in or for any State party to the Paris Convention, or his successors in title, shall enjoy, for the purpose of filing a Community trade mark application for the same trade mark in respect of goods or services which are identical with or contained within those for which the application has been filed, a right of priority during a period of six months from the date of filing of the first application.
- 2. Every filing that is equivalent to a regular national filing under the national law of the State where it was made or under bilateral or multilateral agreements shall be recognized as giving rise to a right of priority.

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3. By a regular national filing is meant any filing that is sufficient to establish the date on which the application was filed, whatever may be the outcome of the application.

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- 4. A subsequent application for a trade mark which was the subject of a previous first application in respect of the same goods or services, and which is filed in or in respect of the same State shall be considered as the first application for the purposes of determining priority, provided that, at the date of filing of the subsequent application, the previous application has been withdrawn, abandoned or refused, without being open to public-inspection and without leaving any rights outstanding, and has not served as a basis for claiming a right of priority. The previous application may not thereafter serve as a basis for claiming a right of priority.
- 5. If the first filing has been made in a State which is not a party to the Paris Convention, paragraphs 1 to 4 shall apply only in so far as that State, according to published findings, grants, on the basis of a first filing made at the Office and subject to conditions equivalent to those laid down in this Regulation, a right of priority having equivalent effect.

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Article 30

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Claiming priority

An applicant desiring to take advantage of the priority of a previous application shall file a declaration of priority and a copy of the previous application. If the language of the latter is not one of the languages of the Office, the applicant shall file a translation of the previous application in one of those languages.

Article 31

Effect of priority right

SECTION 4

CLAIMING THE SENIORITY OF A NATIONAL TRADE

RECOURAGE NOTABLES

The right of priority shall have the effect that the date of priority shall count as the date of filing of the Community trade mark application for the purposes of establishing which rights take precedence.

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Article 34

Claiming the seniority of a national trade mark

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ed the propriet of the absolute value of the policy of Equivalence of Community filing with reational filing as

A Community trade mark application which has been accorded a date of filing shall, in the Member States, be equivalent to a regular national filing, where appropriate with the priority claimed for the Community trade mark application.

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Article 33

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- 1. If an applicant for a Community trade mark has displayed goods or services under the mark applied for, at an official or officially recognized international exhibition falling within the terms of the Convention on International Exhibitions signed at Paris on 22 November 1928 and last revised on 30 November 1972, he may, if he files the application within a period of six months from the date of the first display of the goods or services under the mark applied for, claim a right of priority from that date within the meaning of Article 31.
- 2. An applicant who wishes to claim priority pursuant to paragraph 1 must file evidence of the display of goods or services under the mark applied for under the conditions laid down in the Implementing Regulation.
- 3. An exhibition priority granted in a Member State or in a third country does not extend the period of priority laid down in Article 29.
- A Oran the Office has accorded a date of filing to a Commoney trade could applied to applied a fid has evablished that the applied a studies the conditions established to in Article A in about a studies as a studies at a studies and a studies and a studies are also accorded and a studies as a studies and a studies as a studies and a studies and a studies are the cogneration of the Community trade to arthur argines the cogneration of

1. The proprietor of an earlier trade mark registered in a Member State, including a trade mark registered in the Benelux countries, or registered under international arrangements having effect in a Member State, who applies for an identical trade mark for registration as a Community trade mark for goods or services which are identical with or contained within those for which the earlier trade mark has been registered, may claim for the Community trade mark the seniority of the earlier trade mark in respect of the Member State in or for which it is registered.

2. Seniority shall have the sole effect under this Regulation that, where the proprietor of the Community trade mark surrenders the earlier trade mark or allows it to lapse, he shall be deemed to continue to have the same rights as he would have had if the earlier trade mark had continued to be registered.

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3. The seniority claimed for the Community trade mark shall lapse if the earlier trade mark the seniority of which is claimed is declared to have been revoked or to be invalid or if it is surrendered prior to the registration of the Community trade mark.

not satisfy the requirements referred to in paragraph 1,

as a Community reads mark application. If the applicant complies with the Office spirith, the Office shall accord

Claiming seniority after registration of the Community trade mark

within this paried, the continuous shall not be deal, with

- 1. The proprietor of a Community trade mark who is the proprietor of an earlier identical trade mark registered in a Member State, including a trade mark registered in the Benelux countries, or of a trade mark registered under international arrangements having effect in a Member State, for identical goods or services, may claim the seniority of the earlier trade mark in respect of the Member State in or for which it is registered.
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 2. Article 34 (2) and (3) shall apply.

6. Fallers so safety the confirment conserving the claim to private shall result in lost of the right of paramy for the application.

7. Fairs on reliefy the requirements concerning the claiming of sounding of a neuronal reade meet shall on the loss of their loss of their results of the specification.

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REGISTRATION PROCEDURE

SECTION 1

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- PERCHAPA

EXAMINATION OF APPLICATIONS COLUMN

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Benedakan councils. Or regissery ander inequalitional Examination of the conditions of filing applier for an identical ando mark for registerious so s

- 1. The Office shall examine whether: Mark Marketter
- (a) the Community trade mark application satisfies the requirements for the accordance of a date of filing in as staccordance with Article 27; it has be compared them

the district and receive and its beautiful to the emiliability

- (b) the Community trade mark application complies with the conditions laid down in the Implementing side Regulation; of the second second dark greatured in
- (c) where appropriate, the class fees have been paid within the prescribed period. bod Army power reliese with the lovest liquer and an enter-
- 2. Where the Community trade mark application does not satisfy the requirements referred to in paragraph 1, the Office shall request the applicant to remedy the deficiencies or the default on payment within the prescribed period.

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- 3. If the deficiencies or the default on payment established pursuant to paragraph 1 (a) are not remedied within this period, the application shall not be dealt with as a Community trade mark application. If the applicant complies with the Office's request, the Office shall accord as the date of filing of the application the date on which the deficiencies or the default on payment established are remedied.
- 4. If the deficiencies established pursuant to paragraph 1 (b) are not remedied within the prescribed period, the Office shall refuse the application.

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- 5. If the default on payment established pursuant to paragraph 1 (c) is not remedied within the prescribed period, the application shall be deemed to be withdrawn unless it is clear which categories of goods or services the amount paid is intended to cover. Vicinity (3) Lind (3) shall analysis
- 6. Failure to satisfy the requirements concerning the claim to priority shall result in loss of the right of priority for the application.
- 7. Failure to satisfy the requirements concerning the claiming of seniority of a national trade mark shall result in loss of that right for the application.

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- 1. Where, pursuant to Article 5, the applicant may not be the proprietor of a Community trade mark, the application shall be refused a top man 2 to space striggs
- 2. The application may not be refused before the applicant has been given the opportunity to withdraw his application or submit his observations.

where ships withour to the ort termine their mission with Article 38

Examination as to absolute grounds for refusal

- 1. Where, under Article 7, a trade mark is ineligible for registration in respect of some or all of the goods or services covered by the Community trade mark application, the application shall be refused as regards those goods or services.
- Where the trade mark contains an element which is not distinctive, and where the inclusion of said element in the trade mark could give rise to doubts as to the scope of protection of the trade mark, the Office may request, as a condition for registration of said trade mark, that the applicant state that he disclaims any exclusive right to such element. Any disclaimer shall be published together with the application or the registration of the Community tradesmark, as the case may be another than the case may be 1928 and last revised on 10 Nova atom 1970, he may, a
- 3. The application shall not be refused before the applicant has been allowed the opportunity of withdrawing or amending the application or of submitting his observations.

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1. Once the Office has accorded a date of filing to a Community trade mark application and has established that the applicant satisfies the conditions referred to in Article 5, it shall draw up a Community search report citing those earlier Community trade marks or Community trade mark applications discovered which may be invoked under Article 8 against the registration of the Community trade mark applied for.

- 2. As soon as a Community trade mark application has been accorded a date of filing, the Office shall transmit a copy thereof to the central industrial property office of each Member State which has informed the Office of its decision to operate a search in its own register of trade marks in respect of Community trade mark applications.
- 3. Each of the central industrial property offices referred to in paragraph 2 shall communicate to the Office within three months as from the date on which it received the Community trade mark application a search report which shall either cite those earlier national trade marks or trade mark applications discovered which may be invoked under Article 8 against the registration of the Community trade mark applied for, or state that the search has revealed no such rights.
- 4. An amount shall be paid by the Office to each central industrial property office for each search report provided by that office in accordance with paragraph 3. The amount, which shall be the same for each office, shall be fixed by the Budget Committee by means of a decision adopted by a majority of three-quarters of the representatives of the Member States.
- 5. The Office shall transmit without delay to the applicant for the Community trade mark the Community search reports and the national search reports received within the time limit laid down in paragraph 3.

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- 6. Upon publication of the Community trade mark application, which may not take place before the expiry of a period of one month as from the date on which the Office transmits the search reports to the applicant, the Office shall inform the proprietors of any earlier Community trade marks or Community trade mark applications cited in the Community search report of the publication of the Community trade mark application.
- 7. The Commission shall, five years after the opening of the Office for the filing of applications, submit to the Council a report on the operation of the system of searching resulting from this Article, including the payments made to Member States under paragraph 4, and, if necessary, appropriate proposals for amending this Regulation with a view to adapting the system of searching on the basis of the experience gained and bearing in mind developments in searching techniques.

PREPARECTION 3 TOTAL MANOR TO MOREAGE

PUBLICATION OF THE APPLICATION

Article 40

Publication of the application

1. If the conditions which the application for a Community trade mark must satisfy have been fulfilled

- and if the period referred to in Article 39 (6) has expired, the application shall be published to the extent that it has not been refused pursuant to Articles 37 and 38.
- 2. Where, after publication, the application is refused under Articles 37 and 38, the decision that it has been refused shall be published upon becoming final.

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OBSERVATIONS BY THIRD PARTIES AND OPPOSITION

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Observations by third parties

- 1. Following the publication of the Community trade mark application, any natural or legal person and any group or body representing manufacturers, producers, suppliers of services, traders or consumers may submit to the Office written observations, explaining on which grounds under Article 7, in particular, the trade mark shall not be registered ex officio. They shall not be parties to the proceedings before the Office.
- 2. The observations referred to in paragraph 1 shall be communicated to the applicant who may comment on them.

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- 1. Within a period of three months following the publication of a Community trade mark application, notice of opposition to registration of the trade mark may be given on the grounds that it may not be registered under Article 8:
- (a) by the proprietors of earlier trade marks referred to in Article 8 (2) as well as licensees authorized by the proprietors of those trade marks, in respect of Article 8 (1) and (5);
- (b) by the proprietors of trade marks referred to in Article 8 (3);
- in Article 8 (4) and by persons authorized under the relevant national law to exercise these rights.
 - 2. Notice of opposition to registration of the trade mark may also be given, subject to the conditions laid down in paragraph 1, in the event of the publication of an amended application in accordance with the second sentence of Article 44 (2).
 - holing a feet hat shage visit to the said most easily can be said to shade and most easily can be successed in writing and must specify the grounds on which it is made. It shall not be

treated as duly entered until the opposition fee has been paid. Within a period fixed by the Office, the opponent may submit in support of his case facts, evidence and arguments.

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Examination of opposition

- 1. In the examination of the opposition the Office shall invite the parties, as often as necessary, to file observations, within a period set them by the Office, on communications from the other parties or issued by itself.
- 2. If the applicant so requests, the proprietor of an earlier Community trade mark who has given notice of opposition shall furnish proof that, during the period of five years preceding the date of publication of the Community trade mark application, the carlier Community trade mark has been put to genuine use in the Community in connection with the goods or services in respect of which it is registered and which he cites as justification for his opposition, or that there are proper reasons for non-use, provided the earlier Community trade mark has at that date been registered for not less than five years. In the absence of proof to this effect, the opposition shall be rejected. If the earlier Community trade mark has been used in relation to part only of the goods or services for which it is registered it shall, for the purposes of the examination of the opposition, be deemed to be registered in respect only of that part of the goods or services.
- 3. Paragraph 2 shall apply to earlier national trade marks referred to in Article 8 (2) (a), by substituting use in the Member State in which the earlier national trade mark is protected for use in the Community.
- A. The Office may, if it thinks fit, invite the parties to make a friendly settlement. As a set so may, if it thinks fit, invite the parties to make a friendly settlement.
- 5. If examination of the opposition reveals that the trade mark may not be registered in respect of some or all of the goods or services for which the Community trade mark application has been made, the application shall be refused in respect of those goods or services. Otherwise the opposition shall be rejected.

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6. The decision refusing the application shall be published upon becoming final. A way a become and the same
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WITHDRAWAL, RESTRICTION AND AMENDMENT OF THE APPLICATION

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Withdrawal, restriction and amendment of the application

- 1. The applicant may at any time withdraw his Community trade mark application or restrict the list of goods or services contained therein. Where the application has already been published, the withdrawal or restriction shall also be published.
- 2. In other respects, a Community trade mark application may be amended, upon request of the applicant, only by correcting the name and address of the applicant, errors of wording or of copying, or obvious mistakes, provided that such correction does not substantially change the trade mark or extend the list of goods or services. Where the amendments affect the representation of the trade mark or the list of goods or services and are made after publication of the application, the trade mark application shall be published as amended.

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Where an application meets the requirements of this Regulation and where no notice of opposition has been given within the period referred to in Article 42 (1) or where opposition has been rejected by a definitive decision, the trade mark shall be registered as a Community trade mark, provided that the registration fee has been paid within the period prescribed. If the fee is not paid within this period the application shall be deemed to be withdrawn.

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DURATION, RENEWAL AND ALTERATION OF COMMUNITY TRADE MARKS

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Community trade marks shall be registered for a period of ten years from the date of filing of the application. Registration may be renewed in accordance with Article 47 for further periods of ten years.

Article 47

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Renewal

1. Registration of the Community trade mark shall be renewed at the request of the proprietor of the trade mark or any person expressly authorized by him, provided that the fees have been paid.

2. The Office shall inform the proprietor of the Community trade mark, and any person having a registered right in respect of the Community trade mark, of the expiry of the registration in good time before the said expiry. Failure to give such information shall not involve the responsibility of the Office.

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- 3. The request for renewal shall be submitted within a period of six months ending on the last day of the month in which protection ends. The fees shall also be paid within this period. Failing this, the request may be submitted and the fees paid within a further period of six months following the day referred to in the first sentence, provided that an additional fee is paid within this further period.
- 4. Where the request is submitted or the fees paid in respect of only some of the goods or services for which the Community trade mark is registered, registration shall be renewed for those goods or services only.

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5.16 Renewal shall take effect from the day following the dates on swhich the existing registrations expires in The renewal shall be registered reasonable of povertial shall be registered reasonable of povertial shall refer to the same of the research of the registered of the regis

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1. The Community trade mark shall not be altered in the register during the period of registration or on renewal thereof.

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- 2. Nevertheless, where the Community trade mark includes the name and address of the proprietor, any alteration thereof not substantially affecting the identity of the trade mark as originally registered may be registered at the request of the proprietor.
- 3. The publication of the registration of the alteration shall contain a representation of the Community trade mark as altered. Third parties whose rights may be affected by the alteration may challenge the registration thereof within a period of three months following publication.

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SECTION SECTION S

CHOCKES FOR REVEALER FOR

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1. A Community trade mark may be surrendered in respect of some or all of the goods or services for which it is registered.

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2. The surrender shall be declared to the Office in writing by the proprietor of the trade mark. It shall not have effect until it has been entered in the Register.

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3. Surrender shall be entered only with the agreement of the proprietor of a right entered in the Register. If a licence has been registered, surrender shall only be entered in the Register if the proprietor of the trade mark proves that he has informed the licensee of his intention to surrender; this entry shall be made on expiry of the period prescribed by the Implementing Regulation.

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Article 50

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- 1. The rights of the proprietor of the Community trade mark shall be declared to be revoked on application to the Office or on the basis of a counterclaim in infringement proceedings:
- (a) if, within a continuous period of five years, the trade mark has not been put to genuine use in the Community in connection with the goods or services in respect of which it is registered, and there are no proper reasons for non-use; however, no person may claim that the proprietor's rights in a Community trade mark should be revoked where, during the interval between expiry of the five-year period and filing of the application or counterclaim, genuine use of the trade mark has been started or resumed; the commencement or resumption of use within a period of three months preceding the filing of the application

- or counterclaim which began at the earliest on expiry of the continuous period of five years of non-use shall, however, be disregarded where preparations for the commencement or resumption occur only after the proprietor becomes aware that the application or counterclaim may be filed;
- (b) if, in consequence of acts or inactivity of the proprietor, the trade mark has become the common name in the trade for a product or service in respect of which it is registered;
- (c) if, in consequence of the use made of it by the proprietor of the trade mark or with his consent in respect of the goods or services for which it is registered, the trade mark is liable to mislead the public, particularly as to the nature, quality or geographical origin of those goods or services;
- (d) if the proprietor of the trade mark no longer satisfies the conditions laid down by Article 5.
- 2. Where the grounds for revocation of rights exist in respect of only some of the goods or services for which the Community trade mark is registered, the rights of the proprietor shall be declared to be revoked in respect of those goods or services only.

SECTION 3 GROUNDS FOR INVALIDITY

Article 51

Absolute grounds for invalidity

- 1. A Community trade mark shall be declared invalid on application to the Office or on the basis of a counterclaim in infringement proceedings,
- (a) where the Community trade mark has been registered in breach of the provisions of Article 5 or of Article 7:
- (b) where the applicant was acting in bad faith when he filed the application for the trade mark.
- 2. Where the Community trade mark has been registered in breach of the provisions of Article 7 (1) (b), (c) or (d), it may nevertheless not be declared invalid if, in consequence of the use which has been made of it, it has after registration acquired a distinctive character in relation to the goods or services for which it is registered.
- 3. Where the ground for invalidity exists in respect of only some of the goods or services for which the Community trade mark is registered, the trade mark shall be declared invalid as regards those goods or services only.

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1. A Community trade mark shall be declared invalid on application to the Office or on the basis of a counterclaim in infringement proceedings: on peach to

- (a) where there is an earlier trade mark as referred to in Article 8 (2) and the conditions set out in paragraph 1 or paragraph 5 of that Article are fulfilled;
- (b) where there is a trade mark as referred to in Article 8(3) and the conditions set out in that paragraph are fulfilled;
- (c) where there is an earlier right as referred to in Article 8 (4) and the conditions set out in that paragraph are fulfilled.
- 2. A Community trade mark shall also be declared invalid on application to the Office or on the basis of a conterclaim in infringement proceedings where the use of such trade mark may be prohibited pursuant to the national law governing the protection of any other earlier right an in particular:
- (a) a right to a name;
- (b) a right of personal portrayal;
- (c) a copyright;
- (d) an industrial property right.
- 3. A Community trade mark may not be declared invalid where the proprietor of a right referred to in paragraphs 1 or 2 consents expressly to the registration of the Community trade mark before submission of the application for a declaration of invalidity or the counterclaim.
- in paragraphs 1 or 2 has previously applied for a paragraphs 1 or 2 has previously applied for a paragraphs 1 or 2 has previously applied for a made a counterclaim in infringement proceedings, he may not submit a new application for a declaration of invalidity or lodge a counterclaim on the basis of another of the said rights which he could have invoked in support of his first application or counterclaim.
 - 5. Article 51 (3) shall apply a gene

Article 53

Limitation in consequence of acquiescence

- 1. Where the proprietor of a Community trade mark has acquiesced, for a period of five successive years, in the use of a later Community trade mark in the Community while being aware of such use, he shall no longer be entitled on the basis of the earlier trade mark either to apply for a declaration that the later trade mark is invalid or to oppose the use of the later trade mark in respect of the goods or services for which the later trade mark has been used, unless registration of the later Community trade mark was applied for in bad faith.
- 2. Where the proprietor of an earlier national trade mark as referred to in Article 8 (2) or of another earlier sign referred to in Article 8 (4) has acquiesced, for a period of five successive years, in the use of a later Community trade mark in the Member State in which the earlier trade mark or the other earlier sign is protected while being aware of such use, he shall no longer be entitled on the basis of the earlier trade mark or of the other earlier sign either to apply for a declaration that the later trade mark is invalid or to oppose the use of the

later trade mark in respect of the goods or services for which the later trade mark has been used, unless registration of the later Community trade mark was applied for in bad faith.

3. In the cases referred to in paragraphs 1 and 2, the proprietor of a later Community trade mark shall not be entitled to oppose the use of the earlier right, even though that right may no longer be invoked against the later Community trade mark.

SECTION 4

CONSEQUENCES OF REVOCATION AND INVALIDITY

Article 54

Consequences of revocation and invalidity

- 1. The Community trade mark shall be deemed not to have had, as from the date of the application for revocation or of the counterclaim, the effects specified in this Regulation, to the extent that the rights of the proprietor have been revoked. An earlier date, on which one of the grounds for revocation occurred, may be fixed in the decision at the request of one of the parties.
- 2. The Community trade mark shall be deemed not to have had, as from the ourset, the effects specified in this Regulation, to the extent that the trade mark has been declared invalid.
- 3. Subject to the national provisions relating either to claims for compensation for damage caused by negligence or lack of good faith on the part of the proprietor of the trade mark, or to unjust enrichment, the retroactive effect of revocation or invalidity of the trade mark shall not affect:
- (a) any decision on infringement which has acquired the authority of a final decision and been enforced prior to the revocation or invalidity decision;
- (b) any contract concluded prior to the revocation or invalidity decision, in so far as it has been performed before that decision; however, repayment, to an extent justified by the circumstances, of sums paid under the relevant contract, may be claimed on grounds of equity.

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PROCEEDINGS IN THE OFFICE IN RELATION TO REVOCATION OR INVALIDITY

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Application for revocation or for a declaration of invalidity

1. An application for revocation of the rights of the proprietor of a Community trade mark or for a declaration that the trade mark is invalid may be submitted to the Office:

- (a) where Articles 50 and 51 apply, by any natural or legal person and any group or body set up for the purpose of representing the interests of manufacturers, producers, suppliers of services, traders or consumers, which under the terms of the law governing it has the capacity in its own name to sue and be sued;
- (b) where Article 52 (1) applies, by the persons referred to in Article 42 (1);
- (c) where Article 52 (2) applies, by the owners of the earlier rights referred to in that provision or by the persons who are entitled under the law of the Member State concerned to exercise the rights in question.
- 2. The application shall be filed in a written reasoned statement. It shall not be deemed to have been filed until the fee has been paid.
- 3. An application for revocation or for a declaration of invalidity shall be inadmissible if an application relating to the same subject matter and cause of action, and involving the same parties, has been adjudicated on by a court in a Member State and has acquired the authority of a final decision.

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Examination of the application

- 1. In the examination of the application for revocation of rights or for a declaration of invalidity, the Office shall invite the parties, as often as necessary, to file observations, within a period to be fixed by the Office, on communications from the other parties or issued by itself.
- 2. If the proprietor of the Community trade mark so requests, the proprietor of an earlier Community trade mark, being a party to the invalidity proceedings, shall furnish proof that, during the period of five years preceding the date of the application for a declaration of invalidity, the earlier Community trade mark has been put to genuine use in the Community in connection with the goods or services in respect of which it is registered and which he cites as justification for his application, or that there are proper reasons for non-use, provided the earlier Community trade mark has at that date been registered for non-use, provided the earlier Community trade mark has at that date been registered for not less than five years. If, at the date on which the Community trade mark application was published, the earlier Community trade mark had been registered for not less than five years, the proprietor of the earlier Community trade mark shall furnish proof that, in addition, the conditions contained in Article 43 (2) were satisfied at that date. In the absence of proof to this effect the application for a declaration of invalidity shall be rejected. If the earlier Community trade mark has been used in relation to part only of the goods or services for which it is registered it shall, for the purpose of the examination of the application for a declaration of invalidity, be deemed to be registered in respect only of that part of the goods or services.
- 3. Paragraph 2 shall apply to earlier national trade marks referred to in Article 8 (2) (a), by substituting use

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4. The Office may, if it thinks fit, invite the parties to make a friendly settlement.

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5. If the examination of the application for revocation of rights or for a declaration of invalidity reveals that the trade mark should not have been registered in respect of The provide the course of the time of a contract of the first tensor of the course of the contract of the cont

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some or all of the goods or services for which it is registered, the rights of the proprietor of the Community. trade mark shall be revoked or it shall be declared invalid in respect of those goods or services. Otherwise the application for revocation of rights or for a declaration of invalidity shall be rejected. The transfer received the A

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6. The decision revoking the rights of the proprietor of the Community trade mark or declaring it invalid shall be entered in the Register upon becoming final.

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APPEALS

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Decisions subject to appeal

- 1. An appeal shall lie from decisions of the examiners, Opposition Divisions, Administration of Trade Marks and Legal Devision and Cancellation Divisions. It shall have suspensive effection of the professional and the state of tivite extiti set garai ve di eccentrata e est successi de
- 2. A decision which does not terminate proceedings as regards one of the parties can only be appealed together with the final decision, unless the decision allows separate appeal.

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and and storm storm comments, who Any party to proceedings adversely affected by a decision may appeal. Any other parties to the proceedings shall be parties to the appeal proceedings as of right. a to swift vace. The state of the early event of the teach and the same of the

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Time limit and form of appeal

Notice of appeal must be filed in writing at the Office within two months after the date of notification of the decision appealed from. The notice shall be deemed to have been filed only when the fee for appeal has been paid. Within four months after the date of notification of the decision, a written statement setting out the grounds of appeal must be filed.

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Interlocutory revision

1. If the department whose decision is contested considers the appeal to be admissible and well founded,

- nost construitores para las poeto este moral y e considerancia. it shall rectify its decision. This shall not apply where the appellant is opposed by another party to the proceedings. The state of the first are the country of the proceedings.
- त्ता क्षेत्रक, क्षण्यक पार्वस्त सम्बन्ध कर्म अन्तर्वकार, वर्वते १८ 2. If the decision is not rectified within one month after receipt of the statement of grounds, the appeal shall be remitted to the Board of Appeal without delay, and without comment as to its merit, and many and an additional

Regulations for the original feet of the original feet included Article 61

Examination of appeals

- 1. If the appeal is admissible, the Board of Appeal shall examine whether the appeal is allowable.
- 2. In the examination of the appeal, the Board of Appeal shall invite the parties, as often as necessary, to file observations, within a period to be fixed by the Board of Appeal, on communications from the other parties or issued by itself, the and the state of the sta

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Decisions in respect of appeals

- 1. Following the examination as to the allowability of the appeal, the Board of Appeal shall decide on the appeal. The Board of Appeal may either exercise any power within the competence of the department which was responsible for the decision appealed or remit the case to that department for further prosecution.
- 2. If the Board of Appeal remits the case for further prosecution to the department whose decision was appealed, that department shall be bound by the ratio decidendi of the Board of Appeal, in so far as the facts are the same. It is not to sectionaries of makes if the
- 3. The decisions of the Boards of Appeal shall take effect only as from the date of expiration of the period referred to in Article 63 (5) or, if an action has been brought before the Court of Justice within that period, as from the date of rejection of such action. It is harrisadue

Article 63

Actions before the Court of Justice

1. Actions may be brought before the Court of Justice against decisions of the Boards of Appeal on appeals,

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2. The action may be brought on grounds of lack of competence, infringement of an essential procedural requirement, infringement of the Treaty, of this Regulation or of any rule of law relating to their application or misuse of power.

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- 3. The Court of Justice has jurisdiction to annul or to alter the contested decision. In 12 (2.3 and 13) and hollowing
- 4. The action shall be open to any party to proceedings before the Board of Appeal adversely affected by its
- 5. The action shall be brought before the Court of Justice within two months of the date of notification of the decision of the Board of Appeal.
- 6. The Office shall be required to take the necessary measures to comply with the judgment of the Court of

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Bedikantaran A. Satgmaing i COMMUNITY COLLECTIVE MARKS

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assessment of Community collective marks a made of the ablication legis personal of account design and account of

- 1. A Community collective mark shall be a Community trade mark which is described as such when the mark is applied for and is capable of distinguishing the goods or services of the members of the association which is the proprietor of the mark from those of other undertakings. Associations of manufacturers, producers, suppliers of services, or traders which, under the terms of the law governing them, have the capacity in their own name to have rights and obligations of all kinds, to make contracts or accomplish other legal acts and to sue and be sued, as well as legal persons governed by public law, may apply for Community collective marks, and the same
- 2. In derogation from Article 7 (1) (c), signs or indications which may serve, in trade, to designate the geographical origin of the goods or services may constitute Community collective marks within the meaning of paragraph 1. A collective mark shall not entitle the proprietor to prohibit a third party from using in the course of trade such signs or indications, provided he uses them in accordance with honest practices in industrial or commercial matters; in particular, such a mark may not be invoked against a third party who is entitled to use a geographical name.

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ระหรับอะจะระบบ ในอย่องจับหั 3. The provisions of this Regulation shall apply to Community collective marks, unless Articles 65 to 72 provide otherwise. Card englar chapted place year will O

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Regulations governing use of the mark

1. An applicant for a Community collective mark must submit regulations governing its use within the period prescribed. who wis superior to a real beat make to will add

2. The regulations governing use shall specify the persons authorized to use the mark, the conditions of membership of the association and, where they exist, the conditions of use of the mark including sanctions. The regulations governing use of a mark referred to in Article 64 (2) must authorize any person whose goods or services originate in the geographical area concerned to become a member of the association which is the proprietor of the mark.

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Article 66

Refusal of the application

- 1. In addition to the grounds for refusal of a Community trade mark application provided for in Articles 36 and 38, an application for a Community collective mark shall be refused where the provisions of Article 64 or 65 are not satisfied, or where the regulations governing use are contrary to public policy or to accepted principles of morality.
- 2. An application for a Community collective mark shall also be refused if the public is liable to be misled as regards the character or the significance of the mark, in particular if it is likely to be taken to be something other than a collective mark.
- 3. An application shall not be refused if the applicant, as a result of amendment of the regulations governing use, meets the requirements of paragraphs 1 and 2.

Article 67

Obervations by third parties while tasked ie elimetre, le propo un factalité le

Apart from the cases mentioned in Article 41, any person, group or body referred to in that Article may submit to the Office written observations based on the particular grounds on which the application for a Community collective mark should be refused under the terms of Article:66, was best areas earner sais of marifus ad

those particulars the registration or inclusion of which is provided for by this Regulation or by the Implementing Regulation. The Register shall be open to public inspection.

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- 1. The files relating to Community trade mark applications which have not yet been published shall not be made available for inspection without the consent of the applicant.
- 2. Any person who can prove that the applicant for a Community trade mark has stated that after the trade mark has been registered he will invoke the rights under it against him may obtain inspection of the files prior to the publication of that application and without the consent of the applicant.
- 3. Subsequent to the publication of the Community trade mark application, the files relating to such application and the resulting trade mark may be inspected on request.
- 4. However, where the files are inspected pursuant to paragraphs 2 or 3, certain documents in the file may be withheld from inspection in accordance with the provisions of the Implementing Regulation.

Article 85

Periodical publications

The Office shall periodically publish:

- (a) a Community Trade Marks Bulletin containing entries made in the Register of Community trade marks as well as other particulars the publication of which is prescribed by this Regulation or by the Implementing Regulation;
- (b) an Official Journal containing notices and information of a general character issued by the President of the Office, as well as any other information relevant to this Regulation or its implementation.

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Administrative cooperation

Unless otherwise provided in this Regulation or in national laws, the Office and the courts or authorities of the Member States shall on request give assistance to each other by communicating information or opening files for inspection. Where the Office lays files open to inspection by courts, Public Prosecutors' Offices or central industrial property offices, the inspection shall not be subject to the restrictions laid down in Article 84

Article 87

Exchange of publications

- 1. The Office and the central industrial property offices of the Member States shall despatch to each other on request and for their own use one or more copies of their respective publications free of charge.
- 2. The Office may conclude agreements relating to the exchange or supply of publications.

SECTION 4

REPRESENTATION

Article 88

General principles of representation

- 1. Subject to the provisions of paragraph 2, no person shall be compelled to be represented before the Office.
- 2. Without prejudice to paragraph 3, second sentence, natural or legal persons not having either their domicile or their principal place of business or a real and effective industrial or commercial establishment in the Community must be represented before the Office in accordance with Article 89 (1) in all proceedings established by this Regulation, other than in filing an application for a Community trade mark; the Implementing Regulation may permit other exceptions.
- 3. Natural or legal persons having their domicile or principal place of business or a real and effective industrial or commercial establishment in the Community may be represented before the Office by an employee, who must file with it a signed authorization for insertion on the files, the details of which are set out in the Implementing Regulation. An employee of a legal person to which this paragraph applies may also represent other legal persons which have economic connections with the first legal person, even if those other legal persons have neither their domicile nor their principal place of business nor a real and effective industrial or commercial establishment within the Community.

Article 85

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Professional representatives

- 1. Representation of natural or legal persons before the Office may only be undertaken by:
- (a) any legal practitioner qualified in one of the Member States and having his place of business within the Community, to the extent that he is entitled, within the said State, to act as a representative in trade mark matters; or
- (b) professional representatives whose names appear on the list maintained for this purpose by the Office

Representatives acting before the Office must file with it a signed authorization for insertion on the files, the details of which are set out in the Implementing Regulation.

2. Any natural person who fulfils the following conditions may be entered on the list of professional i kwa sa walio sa 140 waka representatives:

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- (a) he must be a national of one of the Member States;
- (b) he must have his place of business or employment in the Community; The winder level of the moderate S
- (c) he must be entitled to represent natural or legal persons in trade mark matters before the central industrial property office of the Member State in which he has his place of business or employment. Where, in that State, the entitlement is not conditional upon the requirement of special professional qualifications, persons applying to be entered on the list who act in trade mark matters before the central industrial property office of the said State must have habitually so acted for at least five years. However, persons whose professional qualification to represent natural or legal persons in (20) The control of the control o

trade mark matters before the central industrial property, office of one of the Members States is officially recognized in accordance with the regulations laid down by such State shall not be subject to the condition of having exercised the profession. Control of the state of the state of the state of

3. Entry shall be effected upon request, accompanied by a certificate furnished by the central industrial property office of the Member State concerned, which must indicate that the conditions laid down in paragraph 2 are

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- 4. The President of the Office may grant exemption
- (a) the requirement of paragraph 2 (c), second sentence, if the applicant furnishes proof that he has acquired the requisite qualification in another way;
- (b) the requirement of paragraph 2 (a) in special circumstances. En la produption review of the first bases

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5. The conditions under which a person may be removed from the list of professional representatives shall be laid down in the Implementing Regulation.

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JURISDICTION AND PROCEDURE IN LEGAL ACTIONS RELATING TO COMMUNITY TRADE MARKS person and a selection of the configuration of the selection o In polypes in the color of a had be direct volume bookering states from the color of the color o

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APPLICATION OF THE CONVENTION ON JURISDICTION AND ENFORCEMENT

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Application of the Convention on Jurisdiction and ei ormatanej vande status status etranologica de

- 1. Unless otherwise specified in this Regulation, the Convention on Jurisdiction and the Enforcement of Judgments in Civil and Commercial Matters, signed in Brussels on 27 September 1968, as amended by the Conventions on the Accession to that Convention of the States acceding to the European Communities, the whole of which Convention and of which Conventions of Accession are hereinafter referred to as the 'Convention on Jurisdiction and Enforcement', shall apply to proceedings relating to Community trade marks and applications for Community trade marks, as well as to proceedings relating to simultaneous and successive actions on the basis of Community trade marks and national trade marks.
- en ven kranski in gemeent it be vilder in bi 2. In the case of proceedings in respect of the actions and claims referred to in Article 92:

- (a) Articles 2, 4, 5 (1), (3), (4) and (5) and Article 24 of the Convention on Jurisdiction and Enforcement shall not apply;
- (b) Articles 17 and 18 of that Convention shall apply subject to the limitations in Article 93 (4) of this Regulation;
- (c) the provisions of Title II of that Convention which are applicable to persons domiciled in a Member State shall also be applicable to persons who do not have a domicile in any Member State but have an establishment therein.

SECTION 2

DISPUTES CONCERNING THE INFRINGEMENT AND VALIDITY OF COMMUNITY TRADE MARKS

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Community trade mark courts

1. The Member States shall designate in their territories as limited a number as possible of national courts and tribunals of first and second instance, hereinafter referred to as 'Community trade mark courts', which shall perform the functions assigned to them by this Regulation. 18 10 H. 182 11 Th. 192 BE Sammandaldsum

- 2. Each Member State shall communicate to the Commission within three years of the entry into force of this Regulation a list of Community trade mark courts indicating their names and their territorial jurisdiction.
- 3. Any change made after communication of the list referred to in paragraph 2 in the number, names or territorial jurisdiction of the courts shall be notified without delay by the Member State concerned to the Commission.
- 4. The information referred to in paragraphs 2 and 3 shall be notified by the Commission to the Member States and published in the Official Journal of the European Communities.
- 5. As long as a Member State has not communicated the list as stipulated in paragraph 2, jurisdiction for any proceedings resulting from an action or application covered by Article 92, and for which the courts of that State have jurisdiction under Article 93, shall lie with that court of the State in question which would have jurisdiction ratione loci and ratione materiae in the case of proceedings relating to a national trade mark registered in that State.

Article 92

Jurisdiction over infringement and validity

The Community trade mark courts shall have exclusive jurisdiction:

- (a) for all infringement actions and if they are permitted under national law — actions in respect of threatened infringement relating to Community trade marks;
- (b) for actions for declaration of non-infringement, if they are permitted under national law;
- (c) for all actions brought as a result of acts referred to in Article 9 (3), second sentence;
- (d) for counterclaims for revocation or for a declaration of invalidity of the Community trade mark pursuant to Article 96.

Article 93

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International jurisdiction

- 1. Subject to the provisions of this Regulation as well as to any provisions of the Convention on Jurisdiction and Enforcement applicable by virtue of Article 90, proceedings in respect of the actions and claims referred to in Article 92 shall be brought in the courts of the Member State in which the defendant is domiciled or, if he is not domiciled in any of the Member States, in which he has an establishment.
- 2. If the defendant is neither domiciled nor has an establishment in any of the Member States, such

- proceedings shall be brought in the courts of the Member State in which the plaintiff is domiciled or, if he is not domiciled in any of the Member States, in which he has an establishment.
- 3. If neither the defendant nor the plaintiff is so domiciled or has such an establishment, such proceedings shall be brought in the courts of the Member State where the Office has its seat.
- 4. Notwithstanding the provisions of paragraphs 1, 2 and 3:
- (a) Article 17 of the Convention on Jurisdiction and Enforcement shall apply if the parties agree that a different Community trade mark court shall have jurisdiction;
- (b) Article 18 of that Convention shall apply if the exclusion defendant enters an appearance before a different Community trade mark court.
- 5. Proceedings in respect of the actions and claims referred to in Article 92, with the exception of actions for a declaration of non-infringement of a Community trade mark, may also be brought in the courts of the Member State in which the act of infringement has been committed or threatened, or in which an act within the meaning of Article 9 (3), second sentence, has been committed.

Article 94

Extent of jurisdiction

- 1. A Community trade mark court whose jurisdiction is based on Article 93 (1) to (4) shall have jurisdiction in respect of:
- acts of infringement committed or threatened within the territory of any of the Member States,
- acts within the meaning of Article 9 (3), second sentence, committed within the territory of any of the Member States.
- 2. A Community trade mark court whose jurisdiction is based on Article 93 (5) shall have jurisdiction only in respect of acts committed or threatened within the territory of the Member State in which that court is situated.

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Presumption of validity — Defence as to the merits

- 1. The Community trade mark courts shall treat the Community trade mark as valid unless its validity is put in issue by the defendant with a counterclaim for revocation or for a declaration of invalidity.
- 2. The validity of a Community trade mark may not be put him dissue in pan mactions formal declaration of non-infringement.

3. In the actions referred to in Article 92 (a) and (c) a plea relating to revocation or invalidity of the Community trade mark submitted otherwise than by way of a counterclaim shall be admissible in so far as the defendant claims that the rights of the proprietor of the Community trade mark could be revoked for lack of use or that Community trade mark could be declared invalid on account of an earlier right of the defendant.

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Counterclaims

- 1. A counterclaim for revocation or for a declaration of invalidity may only be based on the grounds for revocation or invalidity mentioned in this Regulation.
- 2. A Community trade mark court shall reject a counterclaim for revocation or for a declaration of invalidity if a decision taken by the Office relating to the same subject matter and cause of action and involving the same parties has already become final.
- 3. If the counterclaim is brought in a legal action to which the proprietor of the trade mark is not already a party, he shall be informed thereof and may be joined as a party to the action in accordance with the conditions set out in national law.
- 4. The Community trade mark court with which a counterclaim for revocation or for a declaration of invalidity of the Community trade mark has been filed shall inform the Office of the date on which the counterclaim was filed. The latter shall record this fact in the Register of Community trade marks.
- 5. Article 56 (3), (4), (5) and (6) shall apply.
- 6. Where a Community trade mark court has given a judgment which has become final on a counterclaim for revocation or for invalidity of a Community trade mark, a copy of the judgment shall be sent to the Office. Any party may request information about such transmission. The Office shall mention the judgment in the Register of Community trade marks in accordance with the provisions of the Implementing Regulation.
- 7. The Community trade mark court hearing a counterclaim for revocation or for a declaration of invalidity may stay the proceedings on application by the proprietor of the Community trade mark and after hearing the other parties and may request the defendant to submit an application for revocation or for a declaration of invalidity to the Office within a time limit which it shall determine. If the application is not made within the time limit, the proceedings shall continue; the counterclaim shall be deemed withdrawn. Article 100 (3) shall apply.

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Applicable law

- 1. The Community trade mark courts shall apply the provisions of this Regulation.
- 2. On all matters not covered by this Regulation a Community trade mark court shall apply its national law, including its private international law.
- 3. Unless otherwise provided in this Regulation, a Community trade mark court shall apply the rules of procedure governing the same type of action relating to a national trade mark in the Member State where it has its seat. The seather with the seather with the apparatual and the spatial seather and the seather
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- 1. Where a Community trade mark court finds that the defendant has infringed or threatened to infringe a Community trade mark, it shall, unless there are special reasons for not doing so, issue an order prohibiting the defendant from proceeding with the acts which infringed or would infringe the Community trade mark. It shall also take such measures in accordance with its national law as are aimed at ensuring that this prohibition is complied with.
- 2. In all other respects the Community trade mark court shall apply the law of the Member State to which the acts of infringement or threatened infringement were committed, including the private international law.

Article 99 months appropriate to

Provisional and protective measures

- 1. Application may be made to the courts of a Member State, including Community trade mark courts, for such provisional, including protective, measures in respect of a Community trade mark or Community trade mark application as may be available under the law of that State in respect of a national trade mark, even if, under this Regulation, a Community trade mark court of another Member State has jurisdiction as to the substance of the matter.
- 2. A Community trade mark court whose jurisdiction is based on Article 93 (1), (2), (3) or (4) shall have jurisdiction to grant provisional and protective measures which, subject to any necessary procedure for recognition and enforcement pursuant to Title III of the Convention on Jurisdiction and Enforcement, are applicable in the territory of any Member State. No other court shall have such jurisdiction.

Article 100 Specific rules on related actions

1. A Community trade mark court hearing an action referred to in Article 92, other than an action for a declaration of non-infringement shall, unless there are special grounds for continuing the hearing, of its own motion after hearing the parties or at the request of one of the parties and after hearing the other parties, stay the proceedings where the validity of the Community trade mark is already in issue before another Community trade mark court on account of a counterclaim or where an application for revocation or for a declaration of invalidity has already been filed at the Office.

- 2. The Office, when hearing an application for revocation or for a declaration of invalidity shall, unless there are special grounds for continuing the hearing, of its own motion after hearing the parties or at the request of one of the parties and after hearing the other parties, stay the proceedings where the validity of the Community trade mark is adready in issue on account of a counterclaim before a Community trade mark court. However, if one of the parties to the proceedings before the Community trade mark court so requests, the court may, after hearing the other parties to these proceedings, stay the proceedings. The Office shall in this instance continue the proceedings pending before it.
- 3. Where the Community trade mark court stays the proceedings it may order provisional and protective measures for the duration of the stay.

Article 101

Jurisdiction of Community trade mark courts of second instance — Further appeal

- 1. An appeal to the Community trade mark courts of second instance shall lie from judgments of the Community trade mark courts of first instance in respect of proceedings arising from the actions and claims referred to in Article 92.
- 2. The conditions under which an appeal may be lodged with a Community trade mark court of second instance shall be determined by the national law of the Member State in which that court is located.
- 3. The national rules concerning further appeal shall be applicable in respect of judgments of Community trade mark courts of second instance.

SECTION 3

OTHER DISPUTES CONCERNING COMMUNITY TRADE MARKS

Note: 102 and Article: 102

Supplementary provisions on the jurisdiction of national courts other than Community trade mark courts

- 1. Within the Member State whose courts have jurisdiction under Article 90 (1) those courts shall have jurisdiction for actions other than those referred to in Article 92, which would have jurisdiction ratione loci and ratione materiae in the case of actions relating to a national trade mark registered in that State.
- 2. Actions relating to a Community trade mark, other than those referred to in Article 92, for which no court has jurisdiction under Article 90 (1) and paragraph 1 of this Article may be heard before the courts of the Member State in which the Office has its seat.

Article 103

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Obligation of the national court

A national court which is dealing with an action relating to a Community trade mark, other than the action referred to in Article 92, shall treat the trade mark as valid.

SECTION: 4

TRANSITIONAL PROVISION

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Transitional provision relating to the application of the Convention on Jurisdiction and Enforcement

The provisions of the Convention on Jurisdiction and Enforcement which are rendered applicable by the preceding Articles shall have effect in respect of any Member State solely in the text of the Convention which is in force in respect of that State at any given time.

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TITLE XI

EFFECTS ON THE LAWS OF THE MEMBER STATES

SECTION 1

CIVIL ACTIONS ON THE BASIS OF MORE THAN ONE TRADE MARK

Article 105

Simultaneous and successive civil actions on the basis of Community trade marks and national trade marks

1. Where actions for infringement involving the same cause of action and between the same parties are brought

in the courts of different Member States, one seized on the basis of a Community trade mark and the other seized on the basis of a national trade mark:

(a) the court other than the court first seized shall of its own motion decline jurisdiction in favour of that court where the trade marks concerned are identical and valid for identical goods or services. The court which would be required to decline jurisdiction may

- stay its proceedings if the jurisdiction of the other court is contested;
- (b) the court other than the court first seized may stay its proceedings where the trade marks concerned are identical and valid for similar goods or services and where the trade marks concerned are similar and valid for identical or similar goods or services.
- 2. The court hearing an action for infringement on the basis of a Community trade mark shall reject the action if a final judgment on the merits has been given on the same cause of action and between the same parties on the basis of an identical national trade mark valid for identical goods or services.

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- 3. The court hearing an action for infringement on the basis of a national trade mark shall reject the action if a final judgment on the merits has been given on the same cause of action and between the same parties on the basis of an identical Community trade mark valid for identical goods or services.
- 4. Paragraphs 1, 2 and 3 shall not apply in respect of provisional, including protective, measures.

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APPLICATION OF NATIONAL LAWS FOR THE PURPOSE OF PROHIBITING THE USE OF COMMUNITY TRADE MARKS

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Prohibition of use of Community trade marks

- 1. This Regulation shall, unless otherwise provided for, not affect the right existing under the laws of the Member States to invoke claims for infringement of earlier rights within the meaning of Article 8 or Article 52 (2) in relation to the use of a later Community trade mark. Claims for infringement of earlier rights within the meaning of Article 8 (2) and (4) may, however, no longer be invoked if the proprietor of the earlier right may no longer apply for a declaration that the Community trade mark is invalid in accordance with Article 53 (2).
- 2. This Regulation shall, unless otherwise provided for, not affect the right to bring proceedings under the civil, administrative or criminal law of a Member Sate or under provisions of Community law for the purpose of prohibiting the use of a Community trade mark to the extent that the use of a national trade mark may be prohibited under the law of that Member State or under Community law.

Article 107

Prior rights applicable to particular localities

- 1. The proprietor of an earlier right which only applies to a particular locality may oppose the use of the Community trade mark in the territory where his right is protected in so far as the law of the Member State concerned so permits.
- 2. Paragraph I shall cease to apply if the proprietor of the earlier right has acquiesced in the use of the Community trade mark in the territory where his right is protected for a period of five successive years, being aware of such use; unless the Community trade mark was applied for in bad faith.

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3. The proprietor of the Community trade mark shall not be entitled to oppose use of the right referred to in paragraph 1 even though that right may no longer be invoked against the Community trade mark.

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CONVERSIÓN INTO A NATIONAL TRADE MARK

Article 108

Request for the application of national procedure

- 1. The applicant for or proprietor of a Community trade mark may request the conversion of his Community trade mark application or Community trade mark into a national trade mark application
- (a) to the extent that the Community trade mark application is refused, withdrawn, or deemed to be withdrawn;
- (b) to the extent that the Community trade mark ceases to have effect.
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 2. Conversion shall not take place to a some control of the
- (a) where the rights of the proprietor of the Community trade mark have been revoked on the grounds of non-use, unless in the Member State for which conversion is requested the Community trade mark has been put to use which would be considered to be genuine use under the laws of that Member State;
- (b) for the purpose of protection in a Member State in which, in accordance with the decision of the Office or of the national court, grounds for refusal of registration or grounds for revocation or invalidity apply to the Community trade mark application or Community trade mark.
- 3. The national trade mark application resulting from the conversion of a Community trade mark application or a Community trade mark shall enjoy in respect of the Member State concerned the date of filing or the date of priority of that application or trade mark and, where appropriate, the seniority of a trade mark of that State claimed under Article 34 or 35.

Article 112

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- 1. The Staff Regulations of officials of the European Communities, the Conditions of Employment of other servants of the European Communities, and the rules adopted by agreement between the Institutions of the European Communities for giving effect to those Staff Regulations and Conditions of Employment shall apply to the staff of the Office, without prejudice to the application of Article 131 to the members of the Boards of Appeal.
- 2: Without prejudice to Article 120, the powers conferred on each Institution by the Staff Regulations and by the Conditions of Employment of other servants shall be exercised by the Office in respect of its staff.

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Privileges and immunities

The Protocol on the Privileges and Immunities of the European Communities shall apply to the Office.

Article 114

Liability one bearing in a size of the control of the sampail

1. The contractual liability of the Office shall be governed by the law applicable to the contract in question.

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- 2. The Court of Justice shall be competent to give judgment pursuant to any arbitration clause contained in a contract concluded by the Office.
- 3. In the case of non-contractual liability, the Office shall, in accordance with the general principles common to the laws of the Member States, make good any damage caused by its departments or by its servants in the performance of their duties.
- 4. The Court of Justice shall have jurisdiction in disputes relating to compensation for the damage referred to in paragraph 3.
- 5. The personal liability of its servants towards the Office shall be governed by the provisions laid down in their Staff Regulations or in the Conditions of Employment applicable to them.

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Languages

- 1. The application for a Community trade mark shall be filed in one of the official languages of the European Community.
- 2.25The languages of the Office shall be English, French, German, Italian and Spanish. To the shall be english, benish

- 3. The applicant must indicate a second language which shall be a language of the Office the use of which he accepts as a possible language of proceedings for opposition, revocation or invalidity proceedings.
- If the application was filed in a language which is not one of the languages of the Office, the Office shall arrange to have the application, as described in Article 26 (1), translated into the language indicated by the applicant.
- 4. Where the applicant for a Community trade mark is the sole party to proceedings before the Office, the language of proceedings shall be the language used for filing the application for a Community trade mark. If the application was made in a language other than the languages of the Office, the Office may send written communications to the applicant in the second language indicated by the applicant in his application.
- 5. The notice of opposition and an application for revocation or invalidity shall be filed in one of the languages of the Office.
- 6. If the language chosen, in accordance with paragraph 5, for the notice of opposition or the application for revocation or invalidity is the language of the application for a trade mark or the second language indicated when the application was filed, that language shall be the language of the proceedings.

If the language chosen, in accordance with paragraph 5, for the notice of opposition or the application for revocation or invalidity is neither the language of the application for a trade mark nor the second language indicated when the application was filed, the opposing party or the party seeking revocation or invalidity shall be required to produce, at his own expense, a translation of his application either into the language of the application for a trade mark, provided that it is a language of the Office, or into the second language indicated when the application was filed. The translation shall be produced within the period prescribed in the implementing regulation. The language into which the application has been translated shall then become the language of the proceedings.

7. Parties to opposition, revocation, invalidity or appeal proceedings may agree that a different official language of the European Community is to be the language of the proceedings.

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1 Publication; entries in the Register

- 1. An application for a Community trade mark, as described in Article 26 (1), and all other information the publication of which is prescribed by this Regulation or the implementing regulation, shall be published in all the official languages of the European Community.
- 2. All entries in the Register of Community trade marks shall be made in all the official slanguages of when European Community.

3.50 Inscases of doubt, the text in the language of the Office in which the application for the Community trade mark was filed shall be authentic. If the application was filed in an official language of the European Community other than one of the languages of the Office, the text in the second language indicated by the applicant shall be

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The translation services required for the functioning of the Office shall be provided by the Translation Centre of the Bodies of the Union once this begins operation.

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- 1. The Commission shall check the legality of those acts of the President of the Office in respect of which Community law does not provide for any check on legality by another body and of acts of the Budget Committee attached to the Office pursuant to Article
- 2. It shall require that any unlawful acts as referred to in paragraph 1 be altered or annulled this considered and

Committee by with a rear Congressity tests or an acou

IEBLŲ, 1901–1937 č. ce. das preventina of peographical 3. Member States and any person directly and personally involved may refer to the Commission any acti as referred to in paragraph 1, whether express or implied, for the Commission to examine the legality of that act. Referral shall be made to the Commission within 15 days of the day on which the party concerned first became aware of the act in question. The Commission shall take a decision within one month. If no decision has been taken within this period, the case shall be deemed to have been dismissed.

lationing that at its potitioning the Ciff hat Journal of SECTION 2 (September 2) September 1988 1988

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MANAGEMENT OF THE OFFICE galeralia carry rana addine base ranci calinali sali

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with market president for the President Commission of the

- 1. The Office shall be managed by the President.
- 3. Applications for Constantly trade marks may be 2. To this end the President shall have in particular the following functions and powers: a least with minimals.
- (a) he shall take all necessary steps, including the adoption of internal administrative instructions and the publication of notices, to ensure the functioning I not the Office; a borners mad add profes advances areas
- (b) he may place before the Commission any proposal to amend this Regulation, the Implementing Regulation, the rules of procedure of the Boards of Appeal, the fees regulations and any other rules applying to Community trade marks Safter consulting (the

- Administrative Board and, in the case of the fees regulations and the budgetary provisions of this Regulation, the Budget Committee;
- (c) he shall draw up the estimates of the revenue and expenditure of the Office and shall implement the budget;
- (d) he shall submit a management report to the Commission, the European Parliament and the Administrative Board each year;
- (e) he shall exercise in respect of the staff the powers laid down in Article 112 (2); which a new outer reference to
- (f), he may delegate his powers.
- 3. The President shall be assisted by one or more Vice-Presidents. If the President is absent or indisposed, the Vice-President or one of the Vice-Presidents shall take his place in accordance with the procedure laid down by the Administrative Board.

mint with the realizement. Just

ng ballacensi nu fil Appointment of senior officials

- 1. The President of the Office shall be appointed by the Council from a list of at most three candidates, which shall be prepared by the Administrative Board. Power to dismiss the President shall lie with the Council, acting on a proposal from the Administrative Board.
- 2. The term of office of the President shall not exceed five years. This term of office shall be renewable.
- 3. The Vice-President or Vice-Presidents of the Office shall be appointed or dismissed as in paragraph 1, after consultation of the President.
- 4. The Council shall exercise disciplinary authority over the officials referred to in paragraphs 1 and 3 of this Article.

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- ระบาท เลือง มา สอดแบบ เกาะเกาะ ครั้ง เกาะเกาะ 1. An Administrative Board is hereby set up, attached to the Office. Without prejudice to the powers attributed to the Budget Committee in Section 5 - budget and financial control - the Administrative Board shall have the powers defined below.
- 2. The Administrative Board shall draw up the lists of candidates provided for in Article 120 cm and very market
- the Vegacy to the open of decisions which the Council is 3. It shall fix the date for the first filing of Community trade mark applications, pursuant to Article 143 (3).

- 2. late payment of the registration fee; when the later is orn virus flore and the advantage
- issue of a copy of the certificate of registration;
- registration of the transfer of a Community trade
- 5. registration of a licence or another right in respect of a Community trade mark;
- 6. registration of a licence or another right in respect of an application for a Community trade mark;
- 7. cancellation of the registration of a licence or another right;
- alteration of a registered Community trade mark;
- 9. issue of an extract from the Register, 10 to the artists and
- 10. inspection of the files;
- 11. issue of copies of file documents;
- 12. issue of certified copies of the application;
- 13. communication of information in a file;
- 14. review of the determination of the procedural costs to be refunded.

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3. The Implementing Regulation and the rules of procedure of the Boards of Appeal shall be adopted and amended in accordance with the procedure laid down in Article 141.

and the Court the field research distributery where the parent and he has a not before the control of Article 141

Establishment of a committee and procedure for the adoption of implementing regulations

CACK BYCLAKERSSESSA 1. The Commission shall be assisted by a Committee on Fees, Implementation Rules and the Procedure of the Boards of Appeal of the Office for Harmonization in the Internal Market (trade marks and designs), which shall be composed of representatives of the Member States and chaired by a representative of the Commission.

is the substance of the sound of the contraction and the

the Office. Without perjudice or the pattern andburnt of the

2. The representative of the Commission shall submit to the Committee a draft of the measures to be taken. The Committee shall deliver its opinion on the draft within a time limit which the chairman may lay down according to the urgency of the matter. The opinion shall be delivered by the majority laid down in Article 148 (2) of the Treaty in the case of decisions which the Council is required to adopt on a proposal from the Commission. The votes of the representatives of the Member States within the Committee shall be weighted in the manner set out in that Article. The chairman shall not vote.

rear to Anti-Neige with its comments of Medic bedings where

The Commission shall adopt the measures envisaged if they are in accordance with the opinion of the Committee.

If the measures envisaged are not in accordance with the opinion of the Committee, or if no opinion is delivered, the Commission shall, without delay, submit to the Council a proposal relating to the measures to be taken. The Council shall act by a qualified majority.

If, on the expiry of a period of three months from the date of referral to the Council, the Council has not acted, the proposed measures shall be adopted by the Commission, save where the Council has decided against the measures by a simple majority. of the freshbare of the Chair in the place of which Cammunity is now and the control of the cont

at and an expense Article 142 a performe acciminated

Compatibility with other Community legal provisions A light from a some introduced a particular of Hode Rolls.

This Regulation shall not affect Council Regulation (EEC) No 2081/92 on the protection of geographical indications and designations of origin for agricultural products and foodstuffs (1) of 14 July 1992, and in particular Article 14 thereof.

for the Commission is a comment of continued by the

System of the second content of the following second

- 1. This Regulation shall enter into force on the 60th day following that of its publication in the Official Journal of the European Communities.
- 2. The Member States shall within three years following entry into force of this Regulation take the necessary measures for the purpose of implementing Articles 91 and 110 hereof and shall forthwith inform the Commission of those measures.

ANA PARAMETER AND AND AND AND AND STREET, STRE

3. Applications for Community trade marks may be filed at the Office from the date fixed by the Administrative Board on the recommendation of the President of the Office. Trastropes Ha odes Stelly of (a) odi gedenes segrak zaskoben na uzer ener er. Sen radioerani belenakainda isavani ik podujeko.

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- 4. Applications for Community trade marks filed within three months before the date referred to in paragraph 3 shall be deemed to have been filed on that date.
- for agginding and any other miles agging (3): OJ NorLe208, 24-7: 1992, p. 1. abg at vilgarance.

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ni This Regulation shall be binding in: its tentirety and directly applicable in all Member கல் States. (வற்றும் bos வர்கள் கிமார் என்னி கிரையர் கம்

Done at Brussels, 20 December 1993.

In adopting the Regulation on the Community Trade Mark, the Council and the Commission note: lione I lion of the Tourist of the Council and the Commission notes:

that the trapises Readles of the Covernments of the Member States, meeting at Mani of State and Covernments of the Member 1993, deckled that the Office for Humanization in the Internal Messes (trade parks and designs) thould have its seet in Spaint in a town to be determined by the Spaint Government

- that the Sponish (Government list destyrood Abouts as the seer of the Office.

Statement by the Council and the Commission on the seat of the Office for Harmonization in the Internal Market (trade marks and designs)

Done at Brusseis, 20 December 1993.

'In adopting the Regulation on the Community Trade Mark, the Council and the Commission note: \[\lambda \cong \co

- that the representatives of the Governments of the Member States, meeting at Head of State and Government level on 29 October 1993, decided that the Office for Harmonization in the Internal Market (trade marks and designs) should have its seat in Spain, in a town to be determined by the Spanish Government;
- that the Spanish Government has designated Alicante as the seat of the Office.'

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(**) Except for the 'Notifications and open competitions' (C series) edition of the Official Journal, which is distributed free of charge.

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ระเธรร คริงโดย 510 (1967) กลารสมัพิ Commercial design of a second of the commercial Regularies (EO) No. 40°94 defense the Terrora who exc be proprieted at Contemporação marks' by referring nearby to the Baris Converses for the protessor of fanores leadedoor terroper one gregory islanded stantant hore telepares which was not parties to the fiers Convenient vibration article 26 of Regulation (EC) No 400%, concense, etc. right or provings also needs to rigrapa or isbroten recyclet daugent eins af bebitama od with the assessment ordered in Article 3 of the or beliboured historic and average costs and many & MAT

Regulation (EC). No 40/94 is amended as follows:

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(b) nationals of exhet States which are parmed to the Each Conversion for the presention of enoughial property, lessimates softered to av file Bakis Constancion of the Agreement Escalifishing the World Trade Organization, 1-

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(d) narronals, ether than those raigned to under subpressing a lot, of any field which is not party to the fort Convenion of to the Agreental surplishing the World Trade Organization and which, according to published findings, accords somes and moral tode old be the lo altropica of protection for made marks as it accords to its own random's and, it nationals of the Mancher States are required to prove tag strained in the county of argin, recognises the registration of Continuity trade marks as uttle proof.

3. in Article 7 (7) order subparragraph (8) the following thabor of hadr

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COUNCIL REGULATION (EC) No 3288/94

of 22 December 1994

amending Regulation (EC) No 40/94 on the Community trade mark for the implementation of the agreements concluded in the framework of the Uruguay Round

THE COUNCIL OF THE EUROPEAN UNION,

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Having regard to the Treaty establishing the European Community, and in particular Article 235 thereof,

Having regard to the proposal from the Commission,

Having regard to the opinion of the European Parliament (1),

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Whereas the Agreement establishing the World Trade Organization (hereinafter), the 'WTO Agreement') was a without the compact of the bound being on a colorisation of signed on behalf of the Community; whereas the HAS ADOPTED THIS REGULATION: Agreement on Trade-Related Aspects of Intellectual (1997) Property Rights (hereinafter, the 'TRIPs Agreement'), property saltenance (no sound with a knowled beauty) and annexed bro the bow TO Agreement, "contains detailed be (1814) fundingenes unque ben anoise fillow? we too against (6) provisions on the protection of intellectual property. rights whose purpose is the establishment of international disciplines in this area in order to promote international trade and prevent trade distortions and friction due to the lack of adequate and effective intellectual property protection;

Whereas in order to ensure that all relevant Community legislation is in full compliance with the TRIPs Agreement, the Community must take certain measures in relation to current Community acts on the protection of intellectual property rights; whereas these measures entail in some respects the amendment or modification of Community acts; whereas these measures also entail complementing current Community acts;

Whereas Regulation (EC) No 40/94 creates the Community trade mark (2); whereas Article 5 of Regulation (EC) No 40/94 defines the 'Persons who can be proprietors of Community trade marks' by referring notably to the Paris Convention for the protection of industrial property and requires reciprocal national treatment from countries which are not parties to the Paris Convention; whereas Article 29 of Regulation (EC) No 40/94, concerning the right of priority, also needs to be amended in this respect; whereas in order to comply with the national treatment obligation in Article 3 of the TRIPs Agreement, these provisions should be modified to

ensure that nationals of all WTO Members, even if the Member in question is not a party to the Paris Convention, receive a treatment no less favourable than esthat accorded to nationals of Community Member Notice of Lower Control Contro States; Lee Land

Whereas Article 23 (2) of the TRIPs Agreement provides for the refusal or invalidation of trade marks which contain or consist of false geographical indications for wines and spirits without the condition that they are of such a nature as to deceive the public, a new subparagraph (i) has to be added to Article 7 (1) of Regulation (EC) No 40/94, Sectial stating charges and invoked repairing

racy be obtained at the sbustemendened differs. Pelin line seat from

Article 1

Regulation (EC) No 40/94 is amended as follows:

- 1. Article 5 (1) (b) shall be replaced by the following:
 - '(b) nationals of other States which are parties to the Paris Convention for the protection of industrial property, hereinafter referred to as 'the Paris' Convention', or to the Agreement establishing the World Trade Organization;'
- 2. Article 5 (1) (d) shall be replaced by the following:
 - '(d) nationals, other than those referred to under subparagraph (c), of any State which is not party to the Paris Convention or to the Agreement establishing the World Trade Organization and which, according to published findings, accords to nationals of all the Member States the same protection for trade marks as it accords to its own nationals and, if nationals of the Member States are required to prove registration in the country of origin, recognizes the registration of Community trade marks as such proof.'
- 3. In Article 7 (1) after subparagraph (i) the following shall be added:

⁽¹⁾ Opinion delivered on 14 December 1994 (not yet published in the Official Journal).

⁽²⁾ OJ No L 11, 14. 1. 1994, p. 1.

⁽i) trade marks for wines which contain or consist RETERIORATION MARROSTIC BITT 96-2 geographical indication identifying wines or for spirits which contain for consist of a

No L 349/84

geographical indication identifying spirits with respect to such wines or spirits not having that

origin.'

4. Article 29 (1) shall be replaced by the following:

1. A person who has duly filed an application for a trade mark in or for any State party to the Paris Convention or to the Agreement establishing the World Trade Organization, or his successors in title, shall enjoy, for the purpose of filing a Community trade mark application for the same trade mark in respect of goods or services which are identical with or contained within those for which the application has been filed, a right or priority during a period of six months from the date of filing of the first application.'

raldit 5. Article 29 (5) shall be replaced by the following:

'S. If the first filing has been made in a State which VIESS? WELL INSIES TO TEST is not a party to the Paris Convention or to the Agreement establishing the World Trade Organization, paragraphs 1 to 4 shall apply only in so far as that State, according to published findings, grants, on the basis of the first filing made at the Office and subject to conditions equivalent to those laid down in this Regulation, a right of priority having equivalent effect.

Catobers

Camidaoa H Article 2

This Regulation shall enter into force on I January 1995. (3) Source:

It shall be applicable as of 1 January 1996.

1) - Source:

This Regulation shall be binding in its entirety and directly applicable in all Member States. 3) Committee:

Done at Brussels, 22 December 1994.

For the Council

The President

Fbri Kerox Co., Ltd. Tones Corporation Tanabe Selvaku Co., Etd. Puinted Limited

BOTE VE THE SEEHOPER CALL Akibita Shinohara Masshiro Mishima Yutaka Mozawa

(5) Key words:

WIPO; barmonization treaty; Patent Law Treaty; RLT

(6) Stabutory Provisions:

Drait Patent Law Treaty(PLT/CR/II), Articles 2, 3, 4, 6, 7, 8, and 10, and Draft Requrations, Rules 3 and 6

(7) Abatract:

The purpose of the Patent Law Treaty is ; in view of nf. the convenience to realize .areau

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4. Anicle 25 (1) shall be replaced by the following:

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3) Committee: #3

Done at Brusself, 22 Décember 1994.

(4) Authors:

The President

Masayoshi: Urayama Akihito Shinohara Masahiro Mishima Yutaka Nozawa

Fuji Xerox Co., Ltd. Tonen Corporation Tanabe Seiyaku Co., Ltd. Fujitsu Limited

(5) Key words:

WIPO; harmonization treaty; Patent Law Treaty; PLT

(6) Statutory Provisions:

Draft Patent Law Treaty (PLT/CE/II), Articles 2, 3, 4, 6, 7, 8, and 10, and Draft Regurations, Rules 3 and 6

(7) Abstract:

The purpose of the Patent Law Treaty is , in view of improving the convenience of users, to realize international charmonization dofo the reformalities and the procedures for obtaining a patent. To this end, the draft Treaty(PLT/CE/I) prepared by the International Bureaugof WIPO (hereinafter International Bureau) were discussed in the first esession of the Committee of Experts on the Patent Law Treaty at the cend of 1995. To streak to estimate add becomes swelved the smalleys Joseph To modifications of the

(a) Taking into account the views expressed in the first session, in the International Bureau a modified the draft Treaty and prepared a new draft (PLT/CE/II) which contains such new provisions as filing date and unity of invention. This new draft Treaty was discussed in the second session of the Committee of Experts on the Patent Law Treaty held from 17 to 21 of June, 1996.

viosival and modificate some problems regarding articles 2 draft Treaty, mindicate some problems regarding articles 2 (application); 3 (filing date), 4 (representation; address for service); 6 (unity sof invention), 5 7 (request for recordal of change in mame son address); 8 (request for recordal of change in ownership or change in inventorship), and 10; (opportunity to make observations, amendments and corrections in scase of intended refusal); and present our proposals.

The second session of the Committee of Exparts saw some confrontition between those who argued to limit this treaty only to the formalities (USA, Sweden et al) and those, who argued to corrain not only the formalities but also sobstantial matters (Erance et al). The United States size argued bhat the unity of invention should not be confained for its objection to excepting this patent law treaty to substantial matters. In the session, other countries further pointed out various problems, The Interestrens further pointed out various problems, The Interestrensial Ruther views into account the views

A: Study on the WIPO draft of Patent Law Treaty (PLT/CE/II) is a second of the second of the patent of the patent of the second
1.Preface [Earn; Jaguesdel end of bessgeng (INECVILY) ysserT mi bessgeng the blow charact [Esculture in a additional west [Esculture in a additional was a continued] [ESCULTURE in a continue with the continue w

the Committee of Experts of WIPO had been held to consider the harmonization of patent systems and the views expressed therein were worked up into the Basic Proposal (PLT/DC/3) which was submitted to the first session of the Diplomatic Conference in June, 1991. The Conference, however, came up against brick wall due to the announcement of the United States in 1994 to suspend adoption of so called fist to file principle. In add to the announcement of the United States in 1994 to suspend adoption of so called fist to file principle.

As a breakthrough to such situation, the Advisory Committee Conference for WIPO Patent Harmonization Treaty was held in May, 1995. However, no agreement was reached for patent harmonization treaty based on the Basic Proposal. Instead, but was advised that, to promote patent harmonization limited to the formalities, more than one session of the Committee of Experts should be held before the WIPO General Assembly of 1997. In accordance with this advice, the first session was held in December of 1995 and the second in June of 1996.

The second session of the Committee of Experts saw some confrontation between those who argued to limit this treaty only to the formalities (USA, Sweden et al) and those who argued to contain not only the formalities but also substantial matters (France et al). The United States also argued that the unity of invention should not be contained for its objection to extending this patent law treaty to substantial matters. In the session, other countries further pointed out various problems. The International Bureau will take into account the views

expressed in the second session and prepare the next draft treaty to be submitted to the third session of the Committee of Experts

While predicting the prospect of the Patent Law Treaty is difficult, we herein represent our basic position toward the draft Treaty(PLT/CE/II) and report our study results concerning each provision.

2. Our Basic Position

In principle, we support this Patent Law Treaty because the harmonization of formalities will simplify the procedures on the part of applicant and reduce the cost for obtaining patents. Also, we basically support the newly added provisions of filing date and unity of invention.

Further, we believe that the true harmonization will be realized when not only the formalities but also the substantial matters are harmonized. It is hoped, therefore, that, even after the conclusion of this Patent Law Treaty, further harmonization including substantial matters will be discussed in the Committee of Experts and the true harmonization will be realized in the near future.

3. Study of Each Provision

We have studied the draft Patent Law Treaty and the minutes of the second session of the Committee of Experts in comparison with the Japanese patent law, PCT, and EPC and report the results in the form of tables (1-1, 1-2, 1-3, 1-4, 1-5, 1-6) with problems found and our proposals thereto. The Minutes described in the tables means the minutes of the second session of Committee of Experts (dated June 28, 1996).

Table 1-1
The Problems and Proposals for the draft Patent Law Treaty(1)(Article 2)

		sá fi já – – – Č He Ja – G Br
Article of Rule	Problems A	Proposals 🗎 😣
	음 호 그는 그는 그는 것 같은 점 점 중 중 등 기를 다 다 다 다 다 다 다 다 다 다 다 다 다 다 다 다 다 다	
Article 2: Application	While a Contracting Party is allowed to require	This item should not be added since it will impose
(2) [Request]	containing up to 16 elements within the request part of	excessive burden on the part of applicant to send such
Any Contracting Party may require	the application, the delegation of India proposed to add	information regarding corresponding applications to
that the request part of the application	following item (Minutes No.100): "A Contracting	specific Contracting States.
contain some or all of the following	State may require to furnish information regarding the	
indications or elements:	prosecution of a corresponding application in other	그렇게 되었다. 그런
	S Contracting States."	
[그런 젊으면 그를 끊으
		THE PROPERTY OF THE PROPERTY O
(3) [Presentation of the Request]	The consideration regarding electronic application is	It should be requested that current Japanese practice be
As regards the requirements concerning		accepted S A A
the presentation of the request part of		- 휴 월
the application, no Contracting Party		그런 경기하는 그 그런 경기와 없는 그의 등이
shall refuse the application,		그림 본 있는 사람들은 사람들은 보다.
(ii) where the Contracting Party		
allows the transmittal of		
communications to the Office by		
electronic means [reserved].		
	to the life of the second	
(5) [Language]	Art. 3 allows that "description" may be in any	The position of International Bureau as to deadline and
Any Contracting party may require	language (Art. 3(1)(b)). This Art.2(5), however, allows	other matters for submitting translation is to leave the
that the application be in the language	a Contracting Party to designate specific language for	decision to each Contracting Party(Minutes No.156). It
or in one of the languages of or	application. As a result, it is expected that the	should, however, be specified in the Treaty that a
admitted by the Office.	Contracting Party requires translation of "description"	Contracting Party may require submission of
[different from the specific language. However, no	translation to make clear its treatment on the Treaty.
	relevant provision exists	Further, the deadline for submitting translation should
		be specified in the Treaty.
<u> </u>		<u> </u>
	in the state of th	

Table 1-2
The Problems and Proposals for the draft Patent Law Treaty(2)(Article 3)

Article or Rule	Problems	Proposals
Article 3: Filing Date (1)(a) The filing date of the application shall be the date of receipt by the Office of a communication containing following elements (i) (ii) (iii) and (iv).	 (A) Some developing countries proposed that the payment of the filing fee be contained in the requirement for a filing date(Minutes No.162) (B) An electronic application was left undiscussed. (C) In Japan, the filing date is granted even to a defective application except that it is rejected as unacceptable. There is no corresponding provision. 	 (A) The payment of the filing fee should not be included in the requirement for granting the filing date (Neither PCT nor Japan requires it.) (B) The filing date should be granted to the electronic applications if the requirement provided in Art.3 is satisfied. (C) Japanese law needs to be modified to specify the provisions for granting the filing date.
(i) an express or implicit indication to the effect that the communication is an application for a patent	No problem found. "Tokkyo Negai(patent application)" shall be the name of corresponding document in Japan.	
(ii) indications allowing the identity of the applicant to be established	No problem found. (The name of applicant shall be specified in a Japanese application.)	invalidation in part due to incorrect translation should be specified in the freaty.
(ii) in the newerlywhin is not in the language of language or in one of the languages of or admitted by the Office, an indication to the effect that the application reactions a description. (iii) a description	No problem found. Indicate particles (Minutes Morrage) No problem found. Indicate particles exhibition (Matsumei at no.) shosail to na. setsumei (detailed description of of cinvention) shalls be not be corresponding part in a Japanese application. Neither Drawings (not claims are natequired (Minutes No.153 and No.164) are (Minutes Morrage)	(A) We agree to the proposal that a "description" can be replaced with a reference to an earlier application (Minutes No.155), or incompany that the translation por positive to the proposal that a "description" can be replaced with a reference to an earlier application positive to the proposal that a "description" can be replaced to the replaced to the result of the proposal that a "description" can be replaced with a reference to an earlier application of the replaced to t

Table 1-2. The Problems and Proposals for the draft Patent Law Treaty(2)(Article 3).

(iv) if the description is not is language or in one of the language or admitted by the Office indication to the effect that application contains a description (iii) a description.	description in foreign languages (Minutes No.158) and the matter was left over to further discussion. (B) In the case of the description in a foreign language, the applicant may be required to submit translation thereof. The International Bureau explained that it is the matter of each national law (Minutes No.156). (C) As to accepting an application in foreign language, a question would be raised about the treatment of	 (A) Current draft Treaty should be adopted since there seems no problem for Japan to accept applications in various foreign languages because it actually accepts English applications. (B) It should at least be provided that the translation be submitted before the publication of unexamined application. (C) Provisions regarding correction of translation and invalidation in part due to incorrect translation should be specified in this Treaty.
(i) an express or implicit indicat the offect that the communical		
Article 3: Filing Dric (1)(a) The Thing dute of the application be the time of receipt by the Of a communication comfollowing elements (1) (ii) (ii)	a of (B) An electronic application was lest cartisons set.	included in the requirement for granting the filling data (Neither PCT not Jayan may thes in) (3s). The filling date thanks by granted to the elements applications if the requirement provided in Art.3 is satisfied. (CD) Januares law mends to be modified to specify the
Aticle of Killo		agus muuro was a quo on legis o commissionem reine auristismeen mus tagra, te reeman ni tromaesem mirit on mindid

Table 1-3
The Problems and Proposals for the draft Patent Law Treaty(3)(Article 3)

Article or Rule	Problems	Proposals
Article 3 (1)(b) The indications referred to in subparagraph (a)(i), (ii), and (iv) shall be in the language or in one of the languages of or admitted by the Office, whereas the description referred to in subparagraph (a)(iii) may be in any language.	No problem found. In Japan, when an application is filed in a foreign language in Japan, documents other than specification, drawing and abstract are required to be submitted in Japanese.	
Article 3 (2) If the application does not comply with any of the requirements of subparagraph (a), the Office shall promptly notify the applicant.	(A) There is no provision specifying the period within which the Office "promptly" notifies (Minutes No.166). (B) Is it possible for the applicant to supplement or correct any defect?	(A) While it is supposed to be explained in the Notes (Minutes No.167), appropriate period should be specified in the Treaty.(B) Supplementing process should be admitted if the application does not comply with the requirement for obtaining the filing date.
A CONTRACTOR OF THE CONTRACTOR	AND THE PROPERTY OF THE PROPER	
Rule 3 Each Contracting Party shall be free to determine the circumstances in which the receipt of a communication shall be deemed to constitute receipt of the communication by the Office concerned:	A delegation suggested in the racead section of the Conventities of Experts that a Conventing Party may rapple a repedicion of power of amounty where that power of automay was not find in this language or to not of the finguages of or adjuined by the Office. It was agreed that the tracemistional flueral would souly be biopical found.	or expected the the cather of the continuous of account of the cather of
Each Contracting Party shall be free to determine the circumstances in which the receipt of a communication shall be deemed to constitute receipt of the communication by the Office	Committee of Experts that a Connacting Party may majorate a remadation of power of amoney where the power of automory where the power of automory was not find in the largeinge of the one of the languages of or of ained by the Office. It was agreed that the tracementational Russia would south	receipt by the private courier service approved by the Office (Minutes No. 172).

Table 1-4
The Problems and Proposals for the draft Patent Law Treaty(4)(Article 4)

Article or Rule	Problems	Proposals
Article 4: Representation; Address for Service (4)[Language] Any Contracting Party may require that the power of attorney be in the language or in one of the languages of or admitted by the Office	A delegation suggested in the second session of the Committee of Experts that a Contracting Party may require a translation of power of attorney where the power of attorney was not filed in the language or in one of the languages of or admitted by the Office. It was agreed that the International Bureau would study this suggestion (Minutes No.195).	It may impose more burden on the part of applicant if he/she is required to submit translation of the power of attorney in the language or in one of the languages of or admitted by the Office. Such requirement of translation should be limited, therefore, to certain specific languages such as English.
(5) [Reference to Power of Attorney] Any Contracting party may require that any communication made to the Office by a representative contain a reference to the power of attorney.	While such provisions were approved in the second session of the Committee of Experts, it may require complicated procedures to contain a reference to the power of attorney in all of the documents.	Communic the films color. This provision should be deleted. If the maintenance for the provision for the colors where the absorbed in the first should be deleted. (Notice the the first of the colors of the absorbed in the first of the colors of the col
Acticle 3 (1)(b) The indications referred to it subparagraph (a)(i), (ii), and (iv) shall be in the language or it one of the languages of or admitted by the Office, whereas the description referred to it subparagraph (a)(iii) may be in any language.	No problem found. In Japan, when an application is filed in a famiga tanguage, in Japan, documents other dain specification, drawing and abaract are required to be submitted in Japanesa.	
ATTORE OF RUle 1	Fedbleris	Proposits

Table 1-3 The Problems and Proposals for the droft Patent Law Grogiv (3)(Article 3)

Article or Rule	Problems	Proposals				
Article 6: Unity of Invention (1)[Requirement of Unity of Invention] Any Contracting Party may require	While a Contracting Party can choose to require "one invention" in accordance with the draft Treaty which allows to require either of "one invention" or "a group of inventions," one delegation suggested that the	It should refer only to "a group of invention" and the words "one invention" should be deleted.				
that the application relate to one invention only or to a group of inventions so linked to form a single general inventive concept.	wording be revised to refer only to "a group of inventions." (Minutes No.215)					
(2)[Validity of Patent Not Affected by Lack of Unity of Invention] Once a patent has been granted, it may not be revoked or invalidated	No problem found.					
on the ground of non-compliance with the requirement of unity of invention.		Tricker in the control of the contro				
invention shall be fulfilled only when there is a technical relationship among those inventions havelving our more of the same or corresponding special technical features. The expression "apecial technical features" shall mean those technical	Art.37 of Jopans e Patent Law. (B) It was suggered that the words "its one and the same application" he added niter die word "etalmod," (Minutes No.219). We fealled no problem about this suggestion siece it accords with PCT and EPC.					
Rate 6(1) Where a group of invention is chimed, the requirement of unity of	(A) Because of the words "only when," problem would be raised, if the scope of the unity of the invention provided in Ruie 6 is narrower than the scope of	(A) We seed to confirm whether the scope of the unit of the laveation provided in Rule 6 is hot narrows than that set in Art. 37 of Jepanese Pacin Law.				

Table 1-5
The Problems and Proposals for the draft Patent Law Treaty(5)(Article 6)

Table 1-5 . The Probicus and Proposals for the draft Patent Law Traidy(8)(Article $\epsilon)$

Rule 6(1) Where a group of inventions is claimed, the requirement of unity of invention shall be fulfilled only when there is a technical relationship among those inventions involving one or more of the same or corresponding special technical features. The expression "special technical features" shall mean those technical features that define a contribution	 (A) Because of the words "only when," problem would be raised, if the scope of the unity of the invention provided in Rule 6 is narrower than the scope of Art.37 of Japanese Patent Law. (B) It was suggested that the words "in one and the same application" be added after the word "claimed," (Minutes No.219). We found no problem about this suggestion since it accords with PCT and EPC. 	of the invention provided in Rule 6 is not narrower than that set in Art. 37 of Japanese Patent Law.
which each of those inventions, considered as a whole, makes over the prior art.		•
Rule 6(2) The determination whether a group of inventions is so linked as to form a	No problem found.	
single general inventive concept shall be made without regard to whether the inventions are claimed in separate claims or as alternatives within a single claim.	wording he rovined to prier only to "a group of inventions," (Minutes No.215)	
Acticle 5: Unity of Investion (1)(Requirement of Unitylof Invention) Any Commercy Dany 22: 19:172	White a Contracting Party can choose to require "one invention" in accordance with the deaft Treaty which allows to regain chiner of "one invention" or "a group of invention;" or "a group of invention;"	al sheald rotor only to "a group of lavordien" and the vent, and the vent, and the vent, be defored.
Article or Ruse	Problems	g.co.co.qs

Table 1-6
The Problems and Proposals for the draft Patent Law Treaty(6)(Articles 7,8 and 10)

Article or Rule	Problems	Proposals
Article 7: Request for Recordal of Change in Name and Address (1) As regards the requirements concerning the presentation of the request, no Contracting Party shall refuse the request in the following cases, (ii) where the Contracting Party allows the transmittal of communications to the Office by electronic means [reserved].	It is not clear whether requests by electronic means currently under way in Japan will be accepted or not. There has been no substantial discussion regarding this matter.	We hope that the Treaty will not cause to change current Japanese practice for it is the leading case as to communication by electronic means. We hope that at least requests by electronic means be accepted.
Article 8: Request for Recordal of Change in Ownership or Change in Inventorship (1)(b) Where the recordal of a change in ownership results from a contract, any Contracting Party may require, where the recordal is requested by the new applicant or the new owner, that the request be accompanied by certificates such as a copy of the contract. (1)(h) A single request shall be sufficient even where the change relates to more than one application or patent, provided that the applicant and the new applicant, or the owner and the	The Contracting Party can require certificates only when the request is made by new applicant or new owner. There should be added appropriate conditions.	To comply with Art.11(b) of TLT, a Contracting Party should be allowed to require former applicant or former owner to submit certificates, for which International Form 4 should be thus modified. Where certain certificates are required for more than one application or patent, such provision should be added that it is in the case where the certifications are the same.
new owner are the same for each application or patent.	gi P in open ancopa ya mpa ngaman suk	te projections to specific you restrocted to State that

Table 67

Fine Problems and Proposition the drug Patert Laby Trees(phylothers Table 10)

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application or patent.		
Article 10: Opportunity to Make Observations, Amendments and Corrections in Case of Intended Refusal An Office may not refuse an application or other documents without giving the applicant or the requesting or communicating party at least one opportunity to make observations on the intended refusal, and to make amendments and corrections.	It is not clear exactly in what situation any observations, amendments, and corrections can be made.	It is favorable to clarify, for instance, in Note that exactly in what situation such opportunity shall be given and in what situation not. The same applies to the case where too configurations in the case where the case where too configurations in the case where
	, dwaren. Historia den erektoren iri entegri gik eten irillegililen di enteksi Lipori pokiskinaren. Liperko titur radiagon irolengiatura eneksi	To charge, with Antility) of TLT, a Convening Part Sends, is relowed in require fermer spatisment from a value overficates, for which interactional Form a district to thus modified.
Antito No Soupers for Steenalds of Change to Narro pad Adings. Change to Narro pad Adings. Change to Narro pad Adings. concerning face possess then of the request, no Countring Farry shall study. The possess the face to dowing cases. One of the population in the to dowing this where the Caste daing Pany of the one of the cases. Allows the restministic of canadamicanicans at the Office by electronic means.	to lie past alogie to bedan magazate by interpretation mount paracross, mades on go se Segerio selle diginaccipand on not financial poden notani bemindel discussione capacitate addi- material	Mu mapo dant the Sisaky wild an observe as obadi carried lapareae practive for it is the leading case as contoughtenden by checkedis mount to negotial. Tenst requests by efectionic grount to neocytial.
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October, 1996 (27th International Conference in TOO bHiroshima by of year steed to Jedt Ideob at exemt gery patcent sights, we generally investigate to determine whether (3) *Source: Apin sasseq add to smetap wither odesises one off an objective manner before execujated the rights on groupds that filesof) & Source: mintoPIPA here to a supply and hoperation averagent edd la YaGroup: alai i Japan era easda dedr (neidspidseyad ega lo of \$13) a Committeers of 4 into . And on galary of open how year on ratolement of one dippute with the esters, uptiles off (4) Authors: washid a radisacent sianewai to alson was asodeno to decired injunction or deseguimay be exercised by means of goda Naoko Nanao edd fi Suntory Atda sa rigarei s in polili Toda Takahiro Koyama and Daicel Chemical Industries Ltd. does Hiromis Sudo gad dar y Nippon Telegraph and Telephone a go paintry to viilidiased a rCorporation as the mobel to have the the case, its influence on the social aspects (for instance) sedicionia bas (essent edacoques e (5) Keywords: this paper deart they coace of lewsoits quartifiable to a terrain Proportion, Damage Invil odo al emaid mise a as protes . Diffi edu al . Relean ente palicalectad in boddew a realigneet di (6) Provisions: At the maidenable reco lautes eds through the

When we consider patent infringement lawsuits as one of the means to solve patent disputes, a cost factor is one of the important criteria. The present paper is intended to provide a basis for estimating costs of lawsuits, assuming that patent infringement

lawsuits will be filed in Japan. In the paper, first a method of calculating costs of patent infringement lawsuits will be described. Secondly, the result of calculating the cost of a lawsuit for each specific simulation of three model cases by using this method will be reported.

1. INTRODUCTIONSTRUST FACOUS AND ASSAULT ASSAU

When there is doubt that others may have sinfringed our patent rights, we generally investigate to determine whether these constitute infringement of the patent rights core not in an objective manner before exercising the rights on grounds that they have infringed the rights. When determining as a result of the investigation, that these are actual infringement of the rights, we issue warning to them. This warning may result in settlement of the dispute with the others, cutting off unnecessary costs of lawsuits thereafter. Otherwise, the right to demand injunction or damage may be exercised by means of filing of a lawsuit as a last resort if the others do not stop infringing the patent rights. Patent owners may decide whether or not to file a lawsuit collectively taking into account such factors for judgment as lawsuit costs, a possibility of winning the case, its influence on the social aspects (for instance, a corporate image) and the like. : absorve?

This paper describes costs of lawsuits quantifiable to a certain extent as a main theme in the first chapter. In the second, it describes a method of calculating the costs. In the third, it reports the actual cost estimation for three model cases.

2. HOW TO ESTIMATE COST OF PATENT INFRINGEMENT LAWSUIT

be needed in monetary terms if patent owners (plaintiffs) file patent infringement lawsuits.

An attorney cost, largest of all the costs of a lawsuit, greatly depends upon such factors as complexity of a case, the number of attorneys, prominence of an attorney, relationship between an attorney and a client, solvency of a client and the

like. This makes it practically impossible to uniquely pinpoint a calculating method. Thus, in this chapter, assuming that both plaintiffs and defendants are large corporations like those belonging to PIPA, a method of calculating a maximum cost needed for employing an attorney will be provided of this maximum cost is known, it would be easy to estimate overall costs necessary for a lawsuit.

It should be understood that there may be attorneys or clients who decide costs based on criteria other than those described below.

(****Logical Costs of the Co

It should also be understood that costs of a lawsuit described hereinbelow do not include indirect expenses carried by a client (e.g., internal labor cost, investigation and experiment costs). Further, there are items to be considered before filing of a lawsuit. These items are as follows:

- or not and grasping of infringement facts including consultation with lawyers or patent attorney for
 - (2) Market investigation as a basis for calculating monetary losses due to infringement and estimation of profits accruing to the defendant from selling

no as immosof this products infringing the rights; and motion (3) of square of letters of warning.

These expenses necessary in the stage before filing of the lawsuit may be considered to be lawsuit costs in a broad sense. However, above-noted items to be examined in the prestage and the specific contents thereof greatly vary depending upon such factors as a plaintiff's company, as representative's plan, binding strength of patent rights, infringing situations and the like, making it impossible to make an absolute determination. Thus we these will knot the discussed in this chapter.

Thus pthese will cnot she discussed in this chapter amine (S) philit evoled usey ent ni thuoma seiza a that he he delt

Ro a Patent Infringement Lawsuit Cost (hereinafter called as pullTLC) in unemagnithelidger ineses a lineausteb

Patent infringement lawsuit costs consists of mfour mkinds as follows: The read of the additional position and the manual stables a surround

- 1) Court cost (mainly complaint fees and attached to a written complaint whereinafter called CRC); Asia of pulpsoid asold
- 2) As Lawyer costs (mainly retaining fees, arewards and baily allowances: Thereinafter called LAC); the quantum continuous states and baily
- 3) Patent attorney cost (mainly fees, rewards and adaily allowances: hereinafter called PAC); and ad bisode ti
- 4) Other costs (Investigation and judgment fees, verification fees, etc.: hereinafter called OTH)

 Retaining fees are costs to be paid to lawyers when making a request to them for filing a lawsuit irrespective of its result (success or failure). Rewards are paid only when filing of a lawsuit results in success. Fees and rewards for patent attorney are equivalent to those paid to the lawyers. Daily allowances are costs to be paid to lawyers or patent attorneys or their travel expense or some compensation for he absence from their offices.
- II. How to Estimate CRC (in the case of estimation standard paids in Tokyo District Court) of aptical desired (1)

Tol yerroids distag to trayers! filly cold; if renue

1) Estimation of lawsuit costs based on injunction request gai(IJI) work the business of paintons gailloug lo

IJL = defendant's estimated annual sales amount as of filing of a lawsuit × ratio of patented invention in a product × defendant's profit rate × (Number of) years for the patent rights to be remained effective × 1/8 alternatively, and the patent of patented invention in a product × (Number of) years for the patent rights to be remained effective × 1/8 and rights t

2) Estimation of lawsuit costs (CFD) based on damage request CFD = defendant's sales amount in the year before filing of a lawsuit × defendant's profit rate × years of defendant's patent right infringement until filing

- (of a lawsuit alternatively, sweat to notifemican ()
- of a lawsuit X license fee rate X years of
- of a lawsuit otherwise paient infringement until filing
- CFD = plaintiff's sales reduction in the year before

 Out beliefiling of a lawsuit plaintiff's profit rate X

 a = a yliam years of defendant's patent right infringement

 until filing of a lawsuit
- 3) Estimation of X = IJE + CFD and complaint fees CRC from an attached table 1 (reference | I |)
- 4) Note a more than the second of the second
- of of the case for appeal procedure (second instance), those who appealed need to pay CRC: × > × (d + z) = 000.

 In the case of preliminary injunction CRC is uniformly 1,500 yen.
- III. How to Calculate LAC is sue ywal even in owd menw dua.
- 1) Estimation of economical profits (TJE) based on injunction request = 6 1000 81 800 year to reduce ed. 11
- IJE = plaintiff's annual net profit when patented invention is enforced X remaining years of patent observations in a label product alternatively, [VI] Label when patented invention in a label product alternatively, [VI] Label when patented over a linvention is enforced X remaining years of patents of paten
- 2) Estimation of economical profits based on damage request same as in the case of lawsuit costs (CFD) based on damage compensation request
- 3) Estimation of starting fees (hereinafter called TCH) VI calculate Y = IJE + CFD and TCH from an attached table 2 (reference [II])
- the case, DAL to notification of pulbrooms ([III])
- (CoTCH-off-second-instance==-2=×-TCH off-first instance==-(S

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4) Estimation of rewards (hereinafter called HSU)
palifilnethercase of winning one seles s'imphablet = 640
he grasy if decided, the way TCH throws a be
paiding in if defendant makes appeal, in principle,
     In the case of losing, shwashe financia he
sucted tasin principle; HSU. =: 0 seise ethitmisic = 090
5) Estimation of daily allowances (hereinafter called LDC)
three Days of oral proceedings a times/year ... normally a = 6
     to 10
                        until filling of a lewerth
Days of consultations before and after oral proceedings
                     b times/year ... normally b = a
     Allowances for lawyer
eachd recastant brooks, 000 yen/times ... normally c = 5 to 20
     LDC = (a + b) × c × hearing period (years) cos
6) aLAC: F: (TCH) + HSU: + LDC:): * maginifience to sase end of
     m = the number of lawyers
                                               lusee van.
     But when two or more lawyers are employed and they belong
moistosthen same soffice, aslitoug facimencos to noisemise a
          if the number of lawyers is two: m = 1_{\text{mod}} 2_{\text{pos}}
because if the number of dawyers is three: ma = 1. 501
dasdsq ho ifsthe number of xlawyers ais four: ma = 1. 6
s at Estimation of economical profits of 1) and 2) is based on
a reference material [IV] and a result of seeking legal
consultation from a lawyer. Estimation of starting fees and
rewards of 3) and 4) is based on the lawyer reward rule of Tokyo
Lawyers (Association (issued on April 1, 1996) (reference [II]).
Values of m for daily allowances of 5) and the case 6) of a
plurality of lawyers belonging to the same office are based on
legals consultation with lawyers and experiences. as said
                                     compensation request
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IV. (How To: Calculate PACes) seek pairways to notosaids (E 1) eEstimation of fees and rewards (hereinafter called TSR and APR)

[III]) according to estimation of LAC

2) Estimation of daily allowances (hereinafter called PDC)

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Justion before and after oral proceedings
obskovićask izaski izovabat vd saddi b times/yearsan. normally
ypolobd±98 wew yd bwygai - iseo? stakido bus
     Allowances for assistant 10000 0,000 yen/times
,ixsanormallyuco = 3 toulsaw "uiud amasas to poifit" (IVI
bas PDC = (a + b) X c X hearing period (years)
3). PAC = (TSR + APR + PDC) pXinalida? secidalagas
     m: the number of patent attorney
     But when two or more patent attorney are employed and the
sisobelongitoithe same office, sedinossh respect aid?
palmages if the number of patent attorney is two: in = 1.2
vii belit if the number sof patent attorney is three: ** n = 1.1*
ped tipy, even dited a lawarik has been filled, the dase may be
Lebes add if the numbers of patent attorney is four: do = 1.06
belone 2 ) evand 3) exare the same as 5) and 6) lin bedinoseb as as
because of court decision! Model Case 2 and 3 are the ones
     How to Calculate OTH . sinebebong listing movie buildibom
     Judgment costs, verification costs and costs of witness
summons Judgment fee is 1.5 million yen per one case (including
daily allowances, rewards, document fees and other actual
expenses for those engaged indjudgment) work bes selled [1]
                                                Outline
     how to Calculate TLC
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                                                        -(1)
VI.
TO ATLC:=SCRC + LACS++PAC:+AOTHSQ : IAPAT S lo IBSISSO)
              a product Y. Right remaining years; 10 years)
                                  Infringer: Company B
VII. References
bas of simple Estimation Table for Complaint Filling Fees,
vops ausop38-ini#Lawyer/Duty:Handbook#0 (dissuedain/1994)[[as
alsay vescosing addition effective from October 17)1992)
ৈ া[II]Lawyer\Reward Rule;by:Tokyo Lawyers'Association া
                     (800 (T (effective from April 1,51996))
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-(ecaiq\ney 001 ;imeye ea of f dissued and April (1, im) 1996)
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- written by Hidesato Iida, issued by Invention Booklet 10, written by Hidesato Iida, issued by Invention Society

 **Data [V] Adjudgment and Suit Trial in "Newest Patent Management

 Viffson Manual" Vol. 3 written by Tadayosi Masui, Zenjiro Endo

 and Chikara Koshi, issued by New Technology

 End Development Center
 - [VI] "Filing of Patent Suit" written by Nobumitsu:Hunaki,
 Noriyoshi (Inoue, pissued by New Japan Laws and
 Regulations Publishing (NOK + 89A + 889) = DAS (1)

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344 MODEL: CASES: Any vanioris insise single of a contract sale

This chapter describes the results of calculating costs of lawsuits and related expenses for three model cases, assuming that patent infringement lawsuits have actually been filed. In reality, even after a lawsuit has been filed, the case may be settled before reaching court decision. However, in the model cases described below, it is assumed that cases have ended because of court decision. Model Case 2 and 3 are the ones modified from actual precedents.

- assintiv to else bus of sor related liner, estron interbut 3.160Case 1. The sac and sequential is in all threshold enomers IsotoOutline has cost to manual, attacked, sequential vilus
- [I] Outline and progress of the case egan exons and escapement
- 1) Outline
- (1) Patentee: Company A Dar observed well say (Content of a right; patent for use of a material X for a product Y. Right remaining years; 10 years)

Infringer: Company B

(2) Company A has had an exclusive right to manufacture and sell products Y based on a patented invention since 5 years ago.

will References

- Unit price of a product Y to an agent; 110 yen/piece. Ratio of patented invention in a product Y; 50%)
- YayarCompany Bistarted manufacturing and selling products Y a year ago.
- (degrical price of a product Y to an agent; 100 yen/piece).

(The number of sold products; 10 million/year). (1)

Participation of company B in the market has reduced market price, having resulted in reduction of a unit price of a product Y by company A to an agent from 110 yen/piece to 100 yen/piece.

There had been no change in this situation until the conclusion reached instance a law (001-011)

- (3) Company B did not contest validity of the patent right and thus the trial focused on "whether the product Y is included within the technical scope of the patent or not "")
- (4) The number of agents for company A was two (from different offices) and the number of patent attorney was one (1)
- (5) Hearings were held in Tokyo District Courts (Agents, patent office were located in Tokyo and those concerned from company: Aswere all residents in Tokyo. Tokyo of the confidence of the con
- (6) (Theregawas vanopaonisite verification, appraisement or witness.sexis a range assignation of a societary of the societary
- (7) Preliminary injunction (both first and second instances)

 page 10 The number of times for hearings and questioning: 16

 times equipment behavior of each presented by

 company A: 8 (plus one written complaint)

 and Trial (both first and second instances) a greatest

The number of times for oral proceedings: 16 times.

The number of documents prepared and presented by company A (plus one written complaint).

The number of times for preliminary meeting with agents; an assistant in both Preliminary injunction and Trial (both first and second instances): 32) times policy in a president of the second constances.

Istir (S

2) resirrogress of the case seleviups solionuish to estay
First instance: January 5, in 1989 to December 25; in 1991

***Company A wore the case company Beapealed against a
decision. (1)

Second instance: January 5; in (1992 to December 25, in 1994 50 Company Bulost the case this decision was settled.

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Outlinerofolawsuit! (firstoinstance) to usdsen safe)
desines becarreliminary sinjunction: scinjunction set of the 4
juphque a l'Triale: Jinjunction and damage sale sou pasved , soi un
(2) How to Calculate lawsuit costs (damages charged) of Y
ejis lasalostiprofit and oi beasdo on ased bad eredt
     (110-100)yen/pieces*s16.50million/year/*sonesyear = soo
bas zar65: millionsyen o yakbilky tayraco yoa bib 4 yakasob -
tions the tr[III] amake of redetablille product Y [II] included
     [I] (sellingoprice) [II] (numbersofspieces sold) abddiw
dasas[III] po(period of sinfringement) staspa to astimuc sit (4)
(3) Conclusion (first dinstance): to redewn end bas (aspille
vester Injunction. Suisself explose at blod whee exploses (8)
bateat office were herated in Tokyredert ordernya Tamage payment ordernya of the
       Amount to pay: 900 million yeng (equivalent to three
no increalinges (north years of selling by company (8)
     (100 yen/piece * 10 million pieces/year * three years *
(7) Freingleary injenction (both first and second (80:00:00:00)
of approve the amount of damage
by accessory appeal (due to extended infringement period).
Thus, the amount ordered to pay was as decided in the first
instance.
                  company A: 8 (blue one written complaint)
     Payment order of strial expenses of 1223 mildion yen
accruing to plaintiff, isno act wealt to we down edit
yd beddemana bhs barsgeru alcemanch lo rydwna ed?
                    - (Trinigado coduity end sulq) A yesamoo
II. Expenses
[1] Court expenses m year this is a good good to redwar ent
1) Preliminary injunction vasals fauf and at assurizes as
     Complaint filing fees (affixed stamp price) = 1,500 eyen
2) Trial
     Price of injunction equivalent to products sin contest:
 1001206 million/yend of 6001 mi 3 vasuus6 :spmsden) jerit
s sand (110 yen/piece */15 million pieces/year */0.1 */10 years
      * 8/1)
                                                [I] Jacka[Mb]
1891 at .dS[F]d(Profit rate) a [[II]v(Right remaining years) 002
  DePrice of damages request equivalent to products lawsuited:
                                              165 million yen
```

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Total price of products sued in trial: 371 million yen
       (206 million yen+165 million yen) sousdand browds
Owd Complaint filling fees: 21,230,600 years (88 + 88)
[II] Expenses for lawyers (estimation of starting fees and
(isidrewards)re pulcada dicica sasasgus) apenisi ach sasasgus
1) Economical profit; buseself 00%
                                        Consultation desar
     Injunction: 270 million yen a record is a made a large A
       (110 yen/piece * 15 million pieces/year * 0.1 * 10 years
       * 1/3 * 0.5)may basseoff 00:
                                       au⇔adβI]abimo[MI]
          [I] (Profit rate) [II] (Patent contribution rate)
     Damage compensation request: 165 million yen
Economic profit in preliminary injunction: 275 million
                                                    (abtavat
     yen
To Economic profit in trial: 0440 million yeness said
2) Preliminary injunction (first instance) and Javaywall
     Starting fees: 17.88 million yen (8.94 million yen/person
     * 2 people)
     Rewards: Not paid because of appealing by the defendant
3) Trial (first instance)
                               Pease: 7.64 millian year
     Starting fees: 24.98 million (yenspect femily) fisher ($
                    (12.49 million yen/person * two people)
     Rewards: Not paid because of appealing by the defendant
   Preliminary injunction (second instance)
397 Starting fees: 035.76/million yen may notified by a
                    (17.88 million yen/person * two people)
     Rewards: 35.76 million yen (17.88 million yen/person *
propies and the new solities adver a per notific at the
5) Sarial (second instance) is a symmetric fine the resumments
232 WStarting fees: 149.96 million yend as as easa off
            (301) by (24.98 million yen/person twtwo speople)
     Rewards: 49.96 million yen (24.98 million yen/person *
moillim 80. to amid batwoopeople) of 0.00 (00 to semi) (20 + 30)
Expenses for lawyers (estimation of total daily allowances)
     (daily (allowance is 100 thousand yen/person and time) 3
First instance (preliminary injunction + trial) ($ < $ $ )
     (32 + 32) times * 100 thousand yen/person and time * two
```

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people : # 12.8 million yeng Bons complete to spring fadd?
Second instance (preliminary injunction + trial) 3081
           (32 + 32) times * 100 thousand yen/person and time * two
bos speopled=c12:48 mildionsyen a, assywed tol seenegs# [ll]
Expenses for lawyers (expenses before staring of court trial)
    Consultation fees:
                                                     200 thousand yenkers factscomens (i
   Appraisement letter:
                                                     500 thousand yen and contains
 and pinion letter: be Alabad 300 thousand yeng a Nasy 2000
                                                     100 thousand yenga, 0 * 5 d * 5
 Warning letter:
 (Total: disdingroup inguish. It million eyem hous) [1]
                    pey moillim fel algebrer moitzessegmon elsess
[III] Expenses for patent attorneys (estimation of fees and
rewards)
          The same as estimation of starting fees and rewards for
lawyers. But fees and rewards shall be obtained by multiplying
values calculated based on Table 3 by 0.7. west ordered
                                                                                             (efgosq 1 *
1) & Preliminary injunction (first instance) on a simple of
          Fees: 7.06 million yen
                                                                      Triel (filest instace)
2) Trial (first instance) modelita 80.30 (reset prisus08)
KolgoFees: 10.53: million yeng har kanala
3) MPreliminary dinjunction (second instance) Market and American (second instance) Market Ma
          Fees + rewards: 63841 becoss and tooletel your latifies
           7.06 million yen + 7.06 million yen = 14:12 million yen
4) Trial (secondainstance) Aller DE NAL
 * coareesn+yrewards: 88.Vit new notifie 80.80 tabusweff
           10.53 million yen + 10.53 million yen = 21.06 million yen
Expenses for patent attorneys (estimation of daily allowances)
          The same as estimation of daily allowances for lawyers
(daily allowance is 70,000 yen/person and time)
First instance (preliminary injunctions + Trial) above 400%
           (32 + 32) times * 70,000 yen/person and time = 4.48 million
 (Esonyeniis yileb isida be adirrahtas) agaywal tuh asaasgwii
Second instance (preliminary sinjunction + Trial) vilab)
           (32 + 32) times * 70,000 (yen/person and time = 4.48 million
owd *yened bas noemeginev basseds 601 f asmid (SE + SE)
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Expenses for patent attorney (expenses before starting of court trial) og painismet assy 2)

700 thousand yen, lincluding consultation fees

sales volume was i.if willien to reemploy sales

coer Ker-

An issue, during a patent trial was whether a chemical eroddor X wanefactured and sold by company R was within the

4 Total expenses

Company a had requested an assistant professor of a certain

f	e en la companya de		<u> </u>			·			(Unit	: 0,000 y	/en)
			Agent (two)			Patent attorney (one)					
	ballel.	Court	Starting	Reward	ి ^{(S} Daily్	Others	Fee	Reward	ে Daily [ূ] ্	Others	Total
5.	es fee	LEST	fee	pris	allowance	rua 📗	30,75	15 h	allowance	id kaor	
First	Preliminary	O	1788	- O	640	55	706	-0	224		3498
instance	injunction	le i									
	Trial	123	2498	0	640	55	1053	ಿ೦್	224	35	4628
Second	Preliminary	∵ 0 ∴	3576 ੁ	3576	ครี (640) (อา	₹0	706	.706 🕾	224.5	ai o ni	9428
instance	injunction	k Frid	g pribaggia	Ichta	Ade Sil	ERN WYER	i Kirana	Service se	e some englished	. By wally jed	•
· · · · · · · · · · · · · · · · · · ·	Trial	0	4996	4996	640	0	1053	1053	224	0	12962
Ť	otal	123	12858	8572	2560	110	3518	1759	896 ^{6 6}	70	30516
() L	uylgasi	UR YO	i beal		aw indust	M Ner	5400 to £7	sidt.	, aby in	MILLE	į.

istiualo. B's ynagmob lo-pu goillim VA, I lo omulov agles bit mey 000 lo stau bilour a yd amaby pardu baaq add bi S doddojg

III. Effect

dasps dinewal owd behaloal A yasqmoo tob. sheeps hive (6) eman add og pripacted file noiv , year odda og Unit; og, 000 yen, wal

	Economical	Acquired damage	Refunded court	Total Soit	::3
İ				switters (
	man to the second	kyo and those c	se located in Tr	stent office we	- 1
				ila sabwa yasgadi	
	27500	9000	123	36623	Ÿ

(duisings) is reduction outq) admonvoom to reduce and has semif 3.2 Case 2

(7) The ausbor of timed for oral proceedings WEE Cocally 33

- edawa edi 18 saw A yasqaco yd betaeseig bas beisgeig Outline
- for modify with the agents be [I] Outline and progress of the case
- (8). During first instance of the case, Joseph Outline

Patent owner: Company A (chemical company) crited by coapear A

(1) Possession of two patents

Patent (1) Basic patent for a chemical material (X) Patent (2) Patent of improvement of the basic patent (5) year remaining period)

Infringer: Company Bo(chemical company) Saucio 1900

- (2) Sales volume was 1.47 million kg for the period.
- (3) An issue during a patent trial was whether a chemical product X manufactured and sold by company B was within the technical scope of patent (1) or (2) or not.

Company A had requested an assistant professor of a certain university to determine whether the particle size of a chemical material constituting company B's product X satisfied a constitutional factor (numerical value limit range) as a characteristic of patent (1) or not three times before.

- (4) A trial sought by patent owner company A shall focus on an injunction to the effect that company B shall stop manufacturing and selling of its chemical product X and damage compensation request to the effect that company B shall pay 397 million yen. This damage amount was obtained by multiplying the sales volume of 1.47 million kg of company B's chemical product X in the past three years by a profit rate of 270 yen per kg.
 - (5) Suit agents for company A included two lawsuit agent lawyers and two patent attorney, with all belonging to the same office.
 - (6) A lawsuit was filed with Tokyo District Court and the agents, patent office were located in Tokyo and those concerned from company A were all residents in Tokyo. First instance took nine years.
 - (7) The number of times for oral proceedings was totally 33 times and the number of documents (plus one letter of complaint) prepared and presented by company A was 8. The number of times for meeting with the agents before trial was 33 times.
 - Patent Agency to hold a trial for invalidation of the two patents owned by company A (on the account of no inventive step shown with respect to the patent (1) and existence of prior application with respect to the patent (2)). In the case of the patent (1),

an invalidation trial was held, reaching a decision. However, in the case of the patent (2), the request was rejected. Because of expiration of the right period for the patent (2) 5 years after the lawsuit had been filed, company A withdrew only the injunction to company B. Immediately after this, judgment was reached in the first instance.

Progress of the case .300.1 control to the c

and the second s

- (1) Outline of lawsuit (first instance) as a manager of the standard of the st
- (2) How to calculate lawsuit costs (damage amount)

 Company Asshould have obtained a profit calculated by

 multiplying the sales volume of 1.47 million kg of infringer

 company B's products in the past three years by a profit rate

 of 270 yen per kg avanting vec + may notified set)

 As lost profit
- 1.47 million kg * 270 yen/kgm=[397]million;yenssa (afgoet [1] sommed/new[MI]film as.at) [III]
- (3) Judgmenty (first instance) is size and according to be seen a size of the patent right. Injunction which the patent right pamage compensation payment order Amount to be paid and said and 225 million year (equivalent to 8-year sekkings of the products by company B)

(562.5 million yen * 8 years * 0.05)

Payment order of 1/5 (340 thousand yen) of court expenses for company A

IN Court expenses
Only for Trial

Only for Trial

Only for tool solutions does does described by the content of

Price of lawsuit in the case of injunction: 98 million yen

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Carrent (580 thousand kg/year * 270 yen/kg: 5 years * 1/8)
 is the [M] of the pateod oldsymbol{1}_{oldsymbol{i}} ), the suggestives oldsymbol{i}
 SYNCY & (S) SCOFE (Profit rate) [II] (Right remaining years)
 Price of lawsuit in the case of damage compensation
 ing choose to company B. I muschingly in illion (yen) became to a relation of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the
           Total prices of lawsuit in Trial: 495 million yen bear
                    (98 million yen + 397 million yen)
           Complaint filing fee: 1,602,600 yends so assupens
 [II] Expenses for lawyers (estimation of starting fees and
rewards) sive sala or sala and a yangeror tidentals
 1) Economic profit
                                                                                                 .belttlea
           Injunction: 261 million yendi) diseasi is sarding (1)
                   (580 thousand kg/year * 270 yen/kg * 5 years * 1/3
                   (4*5100)upsm4- sizod diamoldsymbol{1} assimbled ooldsymbol{1}
Parallel (Profit rate) [II] (Patent contribution rate)
  Set Damage compensation request: 397 million yeng that
 Pres Economic profit for Trial : 658 million yen 2 to year and
                     (98 million yen + 397 million yen) and day OVS Ro
2) Trial (first instance)
          Starting fee: 20.22 million yen a parable with a
                               (16.85 million yen/person * 1.2 people)
          Reward: 17.85 million yen (An) (omplow colse) (5)
                      (14.88 million yen/person * 1.2 people)
Expenses for lawyers (estimation of total daily allowances)
 (A daily allowance is 100 thousand yen/person and time)
First instance (Trial) and indeed Jacobyce and Jacobyce to appear (Trial)
 (33 + 33) times * 100 thousand yen/person and time * 1.2
          people = 7.92 million yen the fill vacames and assumble by
                            160.0 For by 8 * Nev notified B 138.
[III] Expenses for patent attorneys (estimation of fees and
rewards)
The same as estimation of starting fees and rewards for lawyers.
But fees and rewards are calculated by multiplying values
obtained based on table 3 by 0.7.
                                                                                   maskagea Jrubb [N].
1)
         Trial (first instance)
                                                                                              dairy for trial
They (Fee: 18:12 million yen (15.1 million yen/person * 1.2
```

people) E caso E.E Reward: 7.2 million yen (6 million yen/personno 1.2) people) seas and be desupond has anisable (1)

- 2) Expenses for patent attorney (estimation of idaily callowances) because A vasgmon them and the same as estimation of daily callowances for lawyers.

 Driv(a daily callowance is 70,000 yen/person and time) First instance (Trial) and to drag account account account of the same as a second of the same as a second of the same as a second of the same account of the s
- 3) Expenses for invalidation trial request: 2.5 million yen double 3000 for blook and a republication in various invalidation (5) [TV] Others to publicate a bruot has domesticated (4001 . 5) Appraisement fee for can assistant professors of a certaing university:

ed of ser4.5 millioneyen (1.5 million yen/time **3 stimes))

231 for paidles to node annual for a vergeen sout as areasons

168 Paid Total expenses wiseder earlier of serious and as areasons

A vergeen or sessol disord at bediever arousens or a vergeen

£	goloda			Agent (t	wo)	Pa	Joyen) .		
		Court	Starting fee	Reward	and a contract of the contract of	Fee	Reward	CAN PATARIA	Total
	First				·	5 (3	ិទាធន ភូព	lyani	
- 13	instance	160	::2,022 :	1,785	792	1,812	₫ 720 ; :	్: 554 °	8,385
j)	(Trial)	la karana	r saith right 2	ంగ్ర జందుక్	ari e levr. Sas	1786 98 78	Americans	าในเกราะสา	

for (/wasmepainth) roomined pribyspou)

III. Effect

whether lesses accraing to the plaintiff are sot

H gasguoo yd benisido aulitoro edr lit er d(Unit; 10,000 yen)

Economical	Acquired damage	Refunded court	Total
effect of	emount	expense	nema Ko
	aquoc usso, edd		
omse delle modile request	agen skaproaks	tanded one pure	wit wai embe ea
0	22,500	34	22,500
विकास के जो के के किया है के अपने के अपने के अपने के अपने के अपने के अपने के अपने के अपने के अपने के अपने के अ	Jorgana Okwasi	Was Taled Wate	Diversi sol . (x

lawyers, and pauset attorneys for company A were nesidents in

- 3.3 Case 3
- Rouseds 7-2 militor yer (6 million yea/semiltu 1-1
- [I] Outline and progress of the case
- 1) Coloutline (Park 198) (ventate one sea tiple elements)
- (1). Patent right owner: Company A (engaged in manufacturing and selling of relatively high priced end products)

(allang

de Eroar

(Coverage of patent rights: product patent having characteristics in certain part of the end product)

and the number of effective remaining years is 5.75 years.

nev alinfringer: Company: Naine and dead form; how measure a

- (2). Defendant company N's products were sold from 1986 to March 3, 1991. Infringement was found in selling of both these products themselves and the above-noted characteristic parts thereof.
- (3) Company A filed a lawsuit for requesting damage to be compensated from company N and injunction of selling of its products on the ground that profits obtained by selling of company N's products resulted in profit losses to company A.
- (4). Issues of the case were the following three:
 - (a) Whether defendant's product is within the technical scope of the right or not (regarding direct infringement);
 - (b) Whether characteristic parts are only used for manufacturing products under the patent right or not (regarding indirect infringement); and
 - (c) If infringement by company N's product is certified, whether losses accruing to the plaintiff are not equivalent to all the profits obtained by company N by selling its products but only limited to characteristic parts (profits thereof) or not.
- (5). Three lawyers in charge of the case company A were from the same law firm and two patent attorneys were from the same patent office.
- (6). The lawsuit was filed with Tokyo District Court and the lawyers, and patent attorneys for company A were residents in

Toky	and the rest shall be poid by the plainians.
(7).	. No on-site verification, appraisement or witnesses. (%)
(:8:):.	. No request filed for preliminary injunction est aid t at
or f	decision that it was not the product as a whole but limited
2)): (3)	sa Progress d of the case smade audit . Edvag bide sabdosasdo add
Firs	st instance: Tokyo District Court (Period: 4 years)
and the second of	ggs off in 1941 (1989 to 1992) gos off of Appril 1995
edf	Plaintiff company A won the case and then defendant company
N ar	ilidat ingruerae and dom domage amount, the amount ord /belbeq
Seco	ond instance: Tokyo High Court (Period: one year) (1992
	to 1993) .noitemides
√be.	Appeal was rejected, resulting in a victory for the person
beir	gsappealed (plaintiff) s as donkong and dont princhisoor
(1)	raOutlinesofithescase and hoose eds of grinslesifined such
1.2	There was no request for preliminary injunction and damage
amou	int contested on the ground that all the profits from selling
o£:t	he products by the defendant were equal to profits losses
to c	ompany A and injunction of selling of its products to
	How to estimate lawsuit costs (damage amount) (First
inst	ance), o and a mid beid on the temper of the color of ance with a manufacture of the color of th
	(a) Lost profits were the basis for estimation on stand
	(b) While defendant's past sales amounted to 1.3 billion
	yen (three years from 1986 to 1989), initially as lost
	profits during the procedure, damage of 50.68 million
	yen was requestedate bescompensated on the real results
	(c) Total cost of the lawsuit was set to 62.71 million
	bus a yen including economic effects of the injunction.
	(d) Therefore, for a cost of the injunction, 12.03
led)	coulter million cyent is obtained by means of cinverse
	estimation, multiplying the above cost by 1/8 as:
i i Bedi	ggs addcourthexpenses. Racqueges finos of technologic bhoses
(3)	Judgment (First instance) held and harsesper emulescond
	Injunction order
-	Damage compensation payment order: 6.44 million 7
	thousand yen say noillim 20.01 : sonstani daniw
	Sharing of trial costs: 1/5 shall be paid by the defendant

and the rest shall be paid by the plaintiff. ... The plaintiff. (7). We called the problem of (4) . Wote with the constant of the contraction of t

In this case, subject of litigation in contest resulted in the decision that it was not the product as a whole but limited to its characteristic parts. Thus, damage amount to be compensated was greatly reduced. (First instance).

Accordingly, in the second instance, the is, the appeal procedure, subject matter in contest was on the result of the first instance and for damage amount, the amount ordered to pay for compensation in the first instance was the basis of

estimation.

However, economic effects of the injunction were calculated, considering that the product as a whole would be influenced, the injunction request initially charged (multiplied by 1/8), 12.03 million yen, was for the patent right period remaining effective of 5.75 years, it was possible to calculate the cost of the injunction charged for one year. Thus, a method of of the injunction charged for one year. Thus, a method of effective of 1.5 years was adopted at the time when the second instance was brought in.

First instance: Destroys gother test and yencores on any solution of the proposition of t

Experience to a conversion table (attached table 1), from the cost of the lawsuit, 40 × 6271 × 17600 = 268 thousand yen (in the end, the amount carried by the defendant was refunded)

Second instance: No court expenses, because it was the appeal

procedure requested by the defendant. dealt) another the fill between the for lawyers are median to a specific first instance: 19.08 million yen new passions. Starting fees to be seed that it is a second to be seed to be

Cost related to damage to be compensated 50.68 million years. Cost related to injunction 1203 × 8/3 = 32.08 million years. Total In the conversion table (table 2) with 82.76 million years the amount of economic profits, 53.173 million years.

Selve of lawyers 3, multiplied by 1.5.5.4.759
million yen

Reward 4.759 \times 2 = 9.518 million yearneges factor (VE) Daily allowance 10 \times 1.5 \times (8 \times 4) = 4.8 million yearneges

Second instance: 4.95 million yen

Cost related to the amount of damage 6.447 million yen

Cost related to injunction 8.369 million yen * 1203 × 8/3 = 3208 3208 ÷ 5.75 = 557.9 557.9 × 1.5 = 836.9

Total in the conversion table (table 2) with 14.82 million yen as the amount of economic profits, 1.247 million yen

With the number of lawyers 3, multiplied by 1.5, 2.494 million yen

Reward 1.247 × 2 = 2.494 million yen

Daily allowance 10 × 1.5 × (8 × 1) = 1.2 million yen

[III] Expenses for patent attorney to dealth asomoness First instance: 9.66 million yen of the first for the formula of the fees

In the conversion table (table 3) with 82.76 million yen as the amount of economical profits, 4.155 million yen

With the number of patent attorney 2, multiplied by 1.2, 4.986 million yen absonuted at a spansh to number bessupposed.

Reward (ditto) 3.49 million yen

Reward (ditto) 3.49 million yen

Daily allowance $7 \times 1.2 \times (8 \times 4) = 2.688$ million yen

a lo posite est ,eseto introdición indicongal add ho estable second instance: 2.49 million yent mass when eaths yen solution fees result in the consequista in a session of estable solutions and the consequista is sessioned to the consequista in the consequista is sessioned to the consequista in the consequista is sessioned to the consequista in the consequista is sessioned to the consequista in the consequista is sessioned to the consequista in the consequista is sessioned to the consequista in the consequista is sessioned to the consequista in the consequista is sessioned to the consequista in the consequista is sessioned to the consequista in the consequista is sessioned to the consequista in the consequista is sessioned to the consequista in the consequista is sessioned to the consequista in the consequista is sessioned to the consequista in the consequista is set the consequista in the consequista in the consequista is set the consequista in the consequista in the consequista is set the consequista in the consequista is set the consequista in the consequista in the consequista is set the consequint in the c

In the conversion table (table 3) with 14.82 million yen

as the amount of economical profits, alone million yen

With the number of patent attorney 2, multiplied by 1.2,

1.2 912 thousand yen

Multiplied by 7, 2912 thousand yen

Reward (ditto) 912 thousand yen

27 Daily allowance 7 × 1.2 × (8 × 1) = 672 thousand yen

pails allowance 10 X 1.5 X (9 X 4, + 1.8 anthiosage

With the momber of bourdery, a medicipiled by I.S., 2.491

may reifilm at . In daiw (S aldas) aldas negaravneo edd at

[IV] Total expenses; acid Cia 845.2 = R K 48V.1

(Unit: 0,000 yen)

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				Agent (two	gent (two) SY 4011		Patent Attorney (one)		
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L	् ु instance	8 8	JXC.	ggg gu	(30 ± 33)	8 8 8	344 80	873 * 33	
	್ರ Second	71 S (j. 1	125	250	≋ ി 120 ⊓	91	OC 91	67	744
	instance	litam	SASSI	edu Loa	g Disosot	e do a	livoms a	io es aux	to .

III. Effect

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Economical effect of injunction (8.37 million yen)
Acquired amount of damage to be compensated (6.45 million yen) \Rightarrow Actually, it was zero yen as of this time due to appealing.

Reward 1.247 X 2 = 1.494 million you

Second instance dilla ladica isolacace he dances edd as

Economical effect of injunction (8.37 million yen)

Acquired amount of damage to be compensated 6.45 million

yen (plus interests until conclusion of second instance)

Opinions may differ as to how to consider the economical effects of the injunction. In actual cases, the effect of a injunction may arise when the defendant loses the case in the first instance or more fortunately when an infringement lawsuit is filed. In this case, the value at the time of passing judgment

in the first instance was adopted.

4. Conclusion

The paper touched upon how to calculate lawsuit costs, citing the specific examples of the model cases in the previous chapters. As described in the first chapter, whether or not to actually file a lawsuit may be decided by paying collective consideration to such factors as costs, the possibility of winning, an influence on the social aspects and the like. Among these, costs must be important consideration without doubt. It will be a gratification if the results of examination pertaining to costs as resources for determination described in the paper will somehow help you when considering whether to file a lawsuit

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(Example) if a suit cost is 1 (tillion yen, x is 100.		byte 5000 tyto) I near the ceal Cought Search Co
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70% (Exa		and the second control of the second control

Table 1 Complaint filing fee simple calculation table (used since October 1, 1992)

			Amoun	t charged in filed	l suita 👸 🚊		4
	300 thousand yen or less, (to 300 thousand yen)	Over 300 thousand and less than 1 million yen, (300 thousand	Over 1 million and less than 3 million yen, (1 million to 3 million yen)	Over 3 million to less than 10 million yen, (3 million to 10 million yen)	Over 10 million to less than 100 million yen, (10 million to	Over 100 million and less than 1 billion yen, (100 million to less than 1	Over 1 billion, (1 billion to)
Kind		to 1 million yen)		(9	100 million)	billion yen)	<u></u>
	500 yen each up to 50,000 yen 500 yen			5 419 Unit of the Control of the Con	ricering a meanine of consideral	te es coe	.bedqobs
Suit	500 1000	00 000	70 4 000		0 40x + 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	30x +	े 20x +∋
	1500 2000 2500 3000	80x + 800	70x + 1,600	50x + 7,600	7,600 m	117,600	1,117,600

Note: x in the table represents a cost of suit (0,000 yen). (Example) if a suit cost is 1 million yen, x is 100.

Table 2
Standard reward for lawyers (excerpt from Lawyer Reward Rule of Tokyo Lawyers' Association (used since April 1, 1996))

Amount of economical profit	Starting fee	Reward		
Less than 3 million yen	0.08Y	0.16Y		
Over 3 million and less than 30 million yen	0.05Y + 90,000 yen	0.1Y + 180,000 yen		
Over 30 million and less than 300 million yen	0.03Y + 690,000 yen	0.06Y + 1,380,000 yen		
Over 300 million yen	0.02Y + 3,690,000 yen	0.04Y + 7,380,000 yen		

Note: X has the tepte represents the price of an object (0,000 year).

Note: Unit of economical profit (X) in the table is (year).

(Example) If an economical profit is 1 mi	llion ven Y is 1 000 000	الله الله الله الله الله الله الله الله	para color de respetable de la compansa de compansa de compansa de compansa de compansa de compansa de la comp
(Example) If an economical profit is 1 mi	200X + 11.845.000	500X 4	11,645,000
Over 100 million and lass than 1 billion yen	300X + 1 845,000	300X }	-1,845,000
Over 50 million and less than 100 million yen	400X + 8+5,000	700X	4 845 000
Over 10 million and less than 50 million ven	. 800X + 345,000	500X	+345,000
Over 5 million and less than 10 million yeu	- 700X + 145,000	700%	+ 145,000
Over 3 million and less than 5 million yen 💎 💮	800X +82,000	900X	÷ 86,000
Over 1 million and less than 3 million yen	1,000X 4 85,000 -	1,000	X + 32'000
Over 500 thousand and less than 1 million yen .	1,200X + 15,000	1500	K + 18,000
Lecs than 500 thousand yen	1,500X		E00X
Price of object	1299 L		ews.c

Table 3. Patent husboss standant cost (excerpt from patent businobs standard post table used since ppt 1, 1994)

Table 3 Patent business standard cost (excerpt from patent business standard cost table used since April 1, 1996)

Price of object	Fee	Reward		
Less than 500 thousand yen	1,500X	1,500X		
Over 500 thousand and less than 1 million yen	1,200X + 15,000	1,200X + 15,000		
Over 1 million and less than 3 million yen	1,000X + 35,000	1,000X + 35,000		
Over 3 million and less than 5 million yen	800X + 95,000	800X + 95,000		
Over 5 million and less than 10 million yen	700X + 145,000	700X + 145,000		
Over 10 million and less than 50 million yen	500X + 345,000	500X + 345,000		
Over 50 million and less than 100 million yen	400X + 845,000	400X + 845,000		
Over 100 million and less than 1 billion yen	300X + 1,845,000	300X + 1,845,000		
Over 1 billion yen	200X + 11,845,000	200X + 11,845,000		

νοτε: Αυμ οι εσομομικό βιομε (λ.) με μια μερία με (λ. Αθυ). Note 1: X in the table represents the price of an object (0,000 yen).

(Example) If the price of an object is	1 million yen, X is 100.	TONA 1 N	280,002 7611
Over 30 million and less ham 30% million had Note 2: Fees and rewards in the table may in	୍ର ପ୍ରଥମ ୧୫୦ ୧୯୯ ncrease/decrease within the range of 30	1%	
Oxer grupped see less usu on unner her depending on the nature of a case.	0.05Y + 90,000 Vetr	017 +1	20,000 3/4/4
Less than 3 million yen	0.087	0.167	
Amount of economical profit	Starting fee	50	MULG

Table 2. Standard reward for lawyer: (excerpt from Lawyer Reward Rule of Tokyo Lawyers' Association (used since April 1, 1996)).

(1) Title: In rol somewriting does enthreis (strolls seed)
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Patent infringement actions for suing damages - Recent:

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(2) Date:

All All Andrews and All Andrews and Andrew Class October 1996 (The 27th General Meeting in Hiroshima) de we have struced judicial precedents in past cat (10) yearst (3) Source: .. apričnil zvo dasestr od ki zsigac sliki DET) seall acomma ath seaso Saveturet ew (dypect race) gaia:1)braSource: she aid PIPA si palau (abivisë doldsmolm) add 2.) "a **Group:** yd Sallg**Japan** Sasdelf (le berberg fo des ogd and 3) its $ext{Committee:}$ be set #4 as left of the singlest mode brown and eda ka Dos (scap) od 1881. yosubski mori daraski roj kast (4) Authors: the beauty lo exist (2) swill vise f bouck . I were Then, from these files, we selected twenty four (21) cases See Masayuki Miyanaga; se Toshiba (Corporation | Mileside | dedd esse Masanoria HIda asaa a The Yokohama Rubbera Com Litda a saaa Bas Satoshi Murakamigi Ricoh Corporation: Selfillasbi Bas approved. In this produces we down amongs own the (5) Key words Damages to a see over edit of edeler field added these two to the twelve, making the number of Tibul (6) Provisions of Laws: targetr fourtest (14).

Jash-**Article 1102 of athésJapanèse**nPatents Läwhsbi - EGNKEI. - Samuoj - mojemi, ng - Genedii - Loed - event - suddi - eschano (Coo.

(7) Summary: [aveltate od as bus dambererq at besifationed to the property of the country of the

To evaluate and estimate amounts of damages, effects obtained by injunctions and costs for suits, and through

these efforts, determine cost performance for claims, for the purpose of analyzing economical effects for companies toopursue patento infringementsactions was applicable desired

I. Preface

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We tried to evaluate recent damages claiming cases for patent infringement in Japan, and as the base for this task, we have studied judicial precedents in past ten (10) years. This paper is to present our findings. eabacha (19)

At length, we retrieved cases in LEX/DB files (TKC Information Service) using it mass the database pand using the set of product of "Patent multiplied by Damages" as the key word for retrieval. We retrieved cases meeting the term for search from January 1986 to date, and as the result, found forty-five (45) files of precedent summaries. Then, from these files, we selected twenty-four (24) cases that actually show decisions for amounts of damages; and next, preliminarily studied the main sentences of judgments and identified twelve: (12) cases in which damages are approved. In this process we found another two (2) cases that relate to the two cases in original twelve, wso we added these two to the twelve, making the number of final targets fourteen (14). (6) Proof afrone of Laws-

database contains almost all precedent LEX/DB collections that have been listed in major journals specialized in precedent, and as to retrieval methods, it may provide for many ways. However, main purpose of our study was to determine the trend of damages suing cases for patent oinfringement win vJapan gorathers (than stossacquire complete statistic data analysis, so we decided that these fourteen (14) cases are typical ones as such that show characteristics of recent cases where damages have been approved, and thus made them the target for our study.

abteired by injunctions and come for sulta, and through

II. Description of the cases

Case

No. 7127 (wall 1984

The cases are summarized as follows (201 , (aw) 2001 , ou

Plaintiff: A company, Defendant: B company

Case 1

Note: 10296 - (wa) 261974: passoli) ystrych to snemysq bemisto A Plaintiffes Apcompany: Defendants Brompany: a set beingb

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A sued B for damages complaining that B has infringed the patented innovation of "stone selecting and picking-up machine", the patent right to which A owns as the exclusive licensee, and the court partly approved the damages.

In this case, A had signed a non-exclusive license agreement between C company, in which A granted C non-exclusive license for the use of the machine, assuring C that if there occurs infringement problems between C and any third party A shall eliminate the trouble and in case A fails to do so it shall indemnify C for penalty. And so A failed, it had paid 8,000,000 yen to C as the penalty for breach of contract.

Plaintiff A claimed against B 8,720,000 yen; for damages which include the said penalty of 8,000,000 yen, and the court dismissed the 8,000,000, deciding the damages to be 320,000 yen, which is the amount of ten percent (10%) of the sales of B. and bus assistant medianization places because him and beauty of the books and beauty of the contains and tend Case 2

No. 1726 (wa), 1985

Plaintiff: A company, Defendant: B company of the add

A sued B for injunction and damages for infringement of patent complaining that B's product is infringing A's patented innovation of "core texture material," and the court ordered B to pay 58,527,952 yen to cover A's damages on lost (expected) profit.

of relling price, which was the exact amount the plaintiff

Case 3

No. 4025 (wa), 1983@ 001 Feb Letitemana Aus esqui edit

Plaintiff: A company, Defendant: B company

A claimed payment of royalty (license fee) against B, and B denied the existence of the alleged license agreement. So, A changed the charge from claim for royalty payment to that for "to prohibit B from using the patent" and for indemnity, which A claimed based on its patent right.

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Mo. 1726 (ww), 1985

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This is the case for infringement of patented innovation, namely "method to manufacture light fireproof materials from industrial wastes." And the court calculated the damages applying standard "Royalty Calculation Method" defined in common license agreements for government owned patent, and then judged that the amount should be the sum equivalent to three percent (3%) of selling price, which totally resulted in 4,549,935 yen.

Fallod, it had paid 8,000,000 year to C as the parally for

Case 4

No. 7127 (wa), 1984

Plaintiff: A company, Defendant: B company

A sued B for injunction and damages for infringement of patent. The patent was "manufacturing method of wooden mosaic construction materials," and the complaint of A was that the method used by B had infringed the said patented innovation.

damagem which include the cald paratry of 8,000,000 year

The court calculated the damages as five percent (5%) of selling price, which was the exact amount the plaintiff had demanded. However, as the patent right of A had changed from that of sole ownership to joint-ownership with other parties, the court judged that the damages incurred after the patent was jointly owned should be calculated

based on the ratios of ownership interest of A. A. Thus, othe damages were judged as (133,599,959) yenuses a source of the control of the con

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No. 1371 (wa), 1983

Plaintiff: A company, Defendants: Four parties (companies)

A owned exclusive license for the patent right to "forced type fresh concrete mixer with two wheels." And based on the license, A sued the four defendants for injunction against selling and using their products, and for the damages. A won the suit.

rovalty, the Adounts of Sauch profite sleads be the damage,

Patent owner was a German company. Between that company, A had signed "license and know-how agreement" which authorized A to use the patent with absolutely exclusiveness in Japan and other areas, and actually A had been exclusively manufacturing and selling the said mixer in Japan. The claimed amount was high 144,910,000 year, but because of the fact that A had been selling the product with discounted prices, and also because of cost deduction, final approved damage was judged as 95,604,866 year.

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wishmed relatively high, ecount, of 199,090,090 year for

A sued B and C for injunction against use of the pigments which A and B were respectively applying for their products, and offer the damages. The reason of whe suit was defendants infringement of A is patent right to "chromic chloride pigments." A won the suit.

P saco

Plaintiff A was an United States based company, and the claimed amounts were 1,066,000,000 year for B, and 383,231,800 year for C. It must be categorized in extremely

high amount cases ever claimed in Japan. Plaintiffe A estimated these amounts based on the calculation of 350 yen per kilogram, which was the formula of the royalty that A had already agreed until then between D, an outsider.

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standard as the calculation base. The standard was the averaged royalty ratio in the chemical industry, and it was as little as approximately one tenth (1/10) of what claimed by A. Under such basic rule, the court determined the amount of damage in a way that for the period when defendants profits exceed the amount of the said 5% royalty, the amounts of such profits should be the damage, and for the period when the profits are lower than the royalty, damage should remain the amount of royalty. Thus, it ordered B to pay 225,091,820 yen, and ordered C to pay 39,140,502 yen.

Case 800 000 010 000 decided by the company of the company before the company of

timal organowed demons was judged as 95,604,836 year.

laine oda zow A 1, z kwegig ebkacido

A sued B for injunction against use of the hair piece and the pin applied for it, along with the damages, by reason of B's infringement of A's patent right to the "hair piece." The case was decided in favor of A. In this case A claimed relatively high amount of 100,000,000 yen for damages, but the evidence was not clear. However, defendant Bandid not protest against the amounts of 6,447,000 yen which A claimed as the profit gained by B, and this amount was approved as the amount of the damages.

Case 9

No. 9806cc(wa), b1986 accass boulat as ass A didminist Plaintiff: Ad company: ODefendant: Becompany: cos besis to said viewer that at be throughout and four if to said asy, 008, 202, 200

A sued B for injunction against use of BMs "laver handling machine" along with the damages promplaining that be was infringing A' s patent. The case was decided in favor of A. In this case, both companies respectively owned specific patents prelated ato the brackine, and whadpalready been disputings each liother, makingemsuchigactions, as ocross injunction.... And while they had once managed to settle reconciliation between them through certain efforts as establishing a joint venture, terms and conditions in reconciliations agreement were not well-implemented ... The suit occurred under such background samiops asy 000,008,11goods and 8, the importer of the same. The amount was the The courts calculated the profit of Bas 2,200,000 yen and recognized it as oplaintiff is idamages 00,000,0 as bedsignist classo against & vas dismassed by basem of Exharmor Case 10 les sais , A berebuo impor est bas edt sit lycoedT No.::1627 s(ne):: 1991bns with beid grahlineb. (nev. 000, 018, a yaq should be that of seven cardent (7%) of salling bridge, The plaintiff sued the defendant for damages complaining that defendant's products namely the ball spline shaft which is used for eternal rubbing movement and which has the support designed as divided structure" were infringing plaintiff's patent. Wo. 2743 (was and 274t (wa), 1989

The court judged that the defendant could have replaced the method or mechanism which is used in the said shaft and which infringe plaintiff's said patent when the defendant applied the patent (s) for the shaft. And thus, the court judged that the said shaft actually infringed the said patent of the plaintiff, and decided the case in favor of the plaintiff. The amount of 22,240,000 year which the plaintiff claimed as its lost profits (15% of selling price) was completely approved.

To both cases the plaintiff claimed 1,800,000 yes for damages, and the court approved 3,400,000 yes for each (cotal 5,800,000). The damages were estoulated inference

No.116565 (wa), 1992 to see Todings politicaling to a Sees A Plaintiff: plaintiff; Defendant: A, AB sinks paols todings

idiciação, Af a parado. The casa was desided in favor of a

This case was the one that so-called "parallel import of true brand goods" which the defendants were engaging in was judged as being infringement of plaintiff's "automotive wheels" patent. The damage was approved (in the first trial).

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In this case the plaintiff claimed total amount of 11,820,000 yen against defendant A, the seller of the said goods and B, the importer of the same. The amount was the sum equivalent to 10% of the sales of A and B (it was calculated as 6,890,000 for A and 4,290,000 for B). The claims against B was dismissed by reason of Exhaustion Theory. In the end, the court ordered A, the seller, to pay 4,820,000 yen, deciding that the amount of the damages should be that of seven percent (7%) of selling price, which was the typical royalty ratio the plaintiff was applying when it executes license agreement for the patent.

Insthese two cases, defendants, rice polishing machine were judged as such that; the machine had been made under only intention of using it to implement plaintiff's patented innovation for method for polishing rice with poured water, and that; accordingly, the machine indirectly infringed plaintiff's patent. Under such decision, the court approved plaintiff's claims for injunction and damages.

In both cases the plaintiff claimed 3,800,000 yen for damages, and the court approved 3,400,000 yen for each (total 6,800,000). The damages were calculated based on

price) Was completely coproved.

the standard "Royalty Calculation Method" defined in common license agreements for government owned patent, and in the calculation, the court decided the royalty for the patent as one percent (1%) of the selling price, leading it by multiplying four percent (4%)-royalty-ratio by one fourth (1/4). The 4% was the ratio defined in the said method and the 1/4 was the utilization rate decided by the court.

Case: 14% . To explica political per of may notifical properties Case: 14% . To explicate political per of the second confidence of No. 10671 (wa); 1990 a solonier to explicate political 2% to expense.

The plaintiff owned the exclusive license for the patent of "flexible pipe for leading cables or tubes," and it sued the defendant for damages complaining that defendant's products were infringing its exclusive license. For the damages, the plaintiff claimed the amount of money which it could usually receive in licensing said patented innovation (i.e. damages equivalent to royalty), along with legal costs. Claimed amount was 13,158,920 yen, which consists of 7,388,920 yen for the royalty equivalent and 5,770,000 yen for legal costs.

The courtive cided the musually-receivable money as to be seven point five percent (7.5%) of the sales, which led 2.518,000 year, and as for the legal costs wit decided that only the portion that had appropriate causal relationship between the infringement should be approved; which resulted in al, 600,000 year. Thus, a totally 4.118,000 years approved. Daily for the evicate vication of the same of the second daily for the section, two try to analyzes the trend win patent infringement actions for suing damages in Japan, based on the said fourteen (14) cases: and model for suing damages in Japan, based on the said fourteen (14) cases: and model for suing a damages in Japan, based on the said fourteen (14) cases. Approved Amounts appared to the same of th

amounts we try to analyze claimed amounts vs. approved amounts vs. appro

as one parcent (18) of the selling price, leading it by

These amounts are generally low in terms of comparison to those of the United States of America where we recently see many cases that have won large amounts of damages ranging from one billion yen to ten billion yen (1,000,000,000 to 10,000,000,000), such as 873 million dollars of Polaroid case or 96 million dollars of Minolta case.

Possible reason for this is that; patent suits in Japan seem to be mainly pursued for the purpose of injunction or honor-restoration, rather than the pursuit of economical benefits by means of claims for damages, and that; right from the beginning, the scales of object markets are small, and that; there is such difference between lawsuit systems in both countries that while they have punitive damages system such as triple damages in the United States of America, in Japan, the system allows only damage-claiming for recovering lost profits.

Also, when we compare approved amounts to claimed amounts, we can see that approved amounts are reduced by half in more than half of cases. Some part of the reason of this is probably that, in suits in Japan, relatives feel it difficult to calculate damages. In fact, Discovery System seen in the U.S. does not exist in Japan, and it is said that judges tend to be extremely passive for applying "order to submit documents" provided in Article 105 of the Patent Law, so it is very difficult for a plaintiff to acquire exact numerical value data which can be used as the base for calculation. Thus, we have to assert that there is disadvantage for a plaintiff who tries to claim a large amount of damage.

As stated above, here we can conclude that:

In damage suing case in Japan, absolute value of claimed damages is low, and in addition to this, an amount likely to be approved against claimed damages tends to become further lower, and that:

The reason for this trend is the complication of the factors such as "purpose to suit," "scale of markets" and the "characteristics of lawsuit systems in Japan."

(2) Examination of effect obtained by injunction

As aforementioned, approved damages tend to be held down to the level far lower than what have been claimed, and approved amounts themselves are not very large at the first place as shown in precedents. So, cost performance for suit may not necessarily be expected to be good. However, damages mentioned above are for compensation for past infringement, and when we consider benefit gained by winning suits we may have to consider future benefit, that is to say effect obtained by injunction.

At the same time, in the questionnaire which the Committee carried out for PIPA members companies this year, there were opinions that they "consider the effect obtained by injunction" when they evaluate cost efficiency in suits. Accordingly, here we have examined the effect of wining suit, evaluating the effect obtained by injunction through the method descried below.

for sulls because there exist a lot of uncertain factors

As for the effect obtained by injunction, we have estimated it referring to the calculation formula used by the plaintiff in the case No. 10671 (wa) 3-1990 (Case 14) In short, we have applied the following methods

To calculate damages per year (damages/year) by dividing judged damages by the number of years (period) of past infringement, and then multiply the result (damages/year)

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by the number of years for which the patent remain existing, to obtain the future effect of the injunction.

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The results are shown in Graph 2. According to the graph, there are four (4) cases where effect obtained by injunction is greater than effect from damages, and there are two (2) cases where the effect becomes rather large amount if we include the effect obtained by injunction to it.

Consequently, if we consider the effect obtained by injunction as the future effect, there is possibility that cases whereby we can obtain enough effect that well offsets costs may increase.

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In next paragraph, we try to assess comparative examination for such cost performance.

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(3) Cost performance in patent suites in Japan saides patents

Generally speaking, it is difficult to estimate costs for suits because there exist a lot of uncertain factors there. The Committee this year has studied this cost estimation matters in detail and reported the findings separately. Here, we have tried to estimate costs for suits on the fourteen (14) cases, based on the principle defined in the said findings. However, it must be noted that the estimate in this paper is merely an experimental aim, since costs are affected by claimed amount or numbers of trials held in the suit, or they vary according to payment capacity of parties.

In the study executed in accordance with such conditions, we found, out of the fourteen (14), four (4) cases where approved damages were larger than costs and therefore satisfies the efforts for cost consuming suit (see Table 2). All of the four (4) cases are such high-amount ones as approved damages exceed 50,000,000 yen, and for the three

cases out of them, originally claimed damages exceed 100,000,000 yen. Accordingly, there seems to exist the trend that shows that unless both claimed amount and approved amount reach certain high level, we are not likely to get result that well offsets the costs. Probable reason is that, as costs are not in proportion to claimed amount, the larger the amount is, the lower becomes the ratio of costs portion.

In addition to the examination of approved damages, we also calculated future economical effect obtained by injunction against infringement and examined the results in relation to costs. As the result, when we look at "damages + effect obtained by injunction" about the cases where approved damages are lower than costs, there are two (2) cases which have obtained economical effect that offsets the costs. The two cases could obtained such an effect because of the length of remaining period of patent right (Table 2).

Also, we calculated "semi-effect" obtained by injunction, that is the amount calculated by multiplying "damages/year" and "period from the date when infringement was suspended to the date of judgment" together; and then look at the economical effect, adding this amount to "damages + effect obtained by injunction." But, from this test there newly appeared no case which offsets costs.

Consequently, with eight (8) cases it can be estimated that they could not obtain the effect that offsets the costs. However, strictly speaking, there are many affairs that only the parties concerned know, such as details of why they had to depend on lawsuit, actual costs for suit and effects other than "damages + effect obtained by injunction" (such as preventive function to stop possible infringements by parties other than the defendant). So, we have to understand that the findings can only be evaluated

as assumptive estimate, and needless to say, a suit cannot be evaluated only for its economical effect of 300,000 on the day of assistance of

Also, reconomical reffect gained by injunctions is an important factor. The factor well consider remaining period up to expiration of right. If the trial continue for a long time, not only costs increase but also effect from injunction decrease, and this will make efficiency further worse. So, we should pay attention to this point, too.

Also, we calculated 'aminested action's actained by injunction. that in the amount calculation by multiplying "damages/jear" wid "gavind from the date which infringedont and apapended to the date of judgment' courseless and their look at the groundical effect, adding this product to "damages" officer potentials, by infroddice. The constant to "damages" officer apayly product to "damages" officer appears to constant to be abled and by appears to chies the constant appears of the constant and constant and constant and constant appears of the constant and constant and constant appears of the constant and constan

Consequentily, with eight (2) costs, is can be estimated thet they could not obtain the effect them offische the column files they could not outsity, specify, bleak are many this time only one parties constituted from monty one details of object they had no depend on lawarit actual costs for outs and effect and effect them then them in effect obtained by different them. "Gasaged is effect obtained by different the formation to stop possible infurentiant of the outside the contraction of stop possible infurential by outside that the defendent). So, we have no only including the can obly be avaitated.

Table 1 - Claimed Amounts versus Approved Damages in recent patent infringement actions

				,		r i		
1	ļ	*			Claimed	Decided damages		
Ŋo.	Case No./Name	Court	Area	Period	amount	(Yen)	Provisions	Calculation
					(Yen)			
1 1	No. 10296 (wa), 1974	Tokyo	Agricultural	10	1. Damages:	1. 327,432	Patent Law	Amount equivalent to royalty for sales
	Damages claiming	District Court	machine	years	720,152	1: . •	102-2	(10%)
ŀ	julatures estações	gerga court			2. 8,000,000	the penalty were	V 16 108	Tropal costs, Tracoloop yen
10	1101 10851 (447) 1860	jesko	ppodpost h	4-Aoste	for penalty the	dismissed	Covi (Sa)	Signal of Action & Action to the State of th
	requirement of controls.		i kini manah sang sang sang sang sang sang sang sang		plaintiff had			***************************************
ļ	្រុមាំការបត្តឲ្យ ទទិនរបន់;	District Court	EDISCUNDS	- -	paid to a non-	: 	rugalitys a	
13	No. 3746 (44), 1989	jokka	y äreen, ran	і ў Хадса	exclusive		Halferick ave	งเมอร์ชเรื่อยกเลตเล เกต เก่ลยเล้ (5 kg)
		tak di kacamatan kana kana kana di kacamatan di kana kana kana kana kana kana kana kan	· Committee of the committee of		licensee			
2	No. 1726 (wa), 1985	Osaka, Control	Textile	3 years	58,527,959	58,527,959	Patent Law	Lost profits
4.0	Injunction against	District Court	y8qcagaw	g Awster	378607360	31400 500	102-1	राज्यकार्वा क्रिक्ट का स्थान है। इस स्थान है ।
	infringement of patent				- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1			
3	No. 4025 (wa), 1983	Osaka	Chemical	4 years	4,549,935	4,549,935	Patent Law	Based on Royalty Calculation Method
	Royalty claiming	District Court	controuting	:	(\$9'8 <u>\</u> 0'000	1000 830 000 K Len	102-2	defined in common license agreement
13.3	MP 16FEL (450)' 1985	1040	ymaubgta	is Assum	32 (13/6) 01.0	4 880 000	5-5-60/ TSW	for government owned patent.
1	paparament of palery.		*******				The second second second second	Royalty was decided as to be 3% of
	Administration of the second	2000		Linear			2535.7	the selling price.
4	No. 7127 (wa), 1984	Osaka	Construction	3 years	336,508,227	133,599,959	Patent Law	Multiplied sales and profit ratio (5%)
	Injunction against	District Court	materials				102-1	together. After the right became that
1	infringement of patent	District Cont.					105-7	of joint-ownership, multiplied the said
. 0	Met alabe (ws): Jake	CRAP /	турасуваесь	g Needs	e'sea'esa	E 800 000	Palent Law	product by 1/4 i.e. interest of joint-
languar and a					144.040.000	and the second s		ownership.
5	No. 1371 (wa), 1983	Osaka	Machinery	9 years	144,910,000	Defendant 1:	Patent Law	Damages equivalent to royalty was
13	Injunction against	District Court	2" (\$70) A	g News	100 000 000	94,383,866	52, 102-1	decided as to be 4% of the price (The
1	infringement of	Ş				Defendant 2:	:	plaintiff had agreed between the
1	exclusive license			:		510,000		patent owner to pay him royalty of 3
	្រុះប្រជាជិត១៩៩៣ ហ្ ឯកចុសហ			i		Defendant 3:	109	or 4% of the selling price), and see a
	publicano erisposi	planci cont		Assis		246,000 Defendant 4:	100' 105'5'	calestatifd multiplying this setting price
I A	Mb 3940 (WA), 1981) (800 ·)	Consultary		[@@@[564]8 666 +	465,000	- Parera Law	Paranti Pankakat to takink istra
	infringement of perver					Total:		08.5% ()
	โทร์นกอยอก อยู่อยักร:	DENEA COURT		years		95,604,866	100' 105-5	caroulated materifying the setting price
<u> </u>	Bayan dada (wa) Nabab	<u>l:</u>	Programme Commence	F 2			<u> </u>	A company of the second second second second

6	No. 3939 (wa), 1981 Injunction against infringement of patent	Tokyo District Court	Chemical	10 years	1,066,000,000	225,091,820	Patent Law 100, 102-2	Amount equivalent to royalty was calculated multiplying the selling price by 5%.
7	No. 3940 (wa), 1981 Injunction against infringement of patent	Tokyo District Court	Chemical	10 years	383,231,800	39,140,502 NEVEGO Determine 21	Patent Law 100, 102-2, 105	Amount equivalent to royalty was calculated multiplying the selling price by 5%. Part of the right to make a claim for damages had been barred by prescription.
8	No. 12030 (wa), 1989 Injunction against infringement of patent	Tokyo District Court	Other/ Munufacturer	3 years	100,000,000	6,447,000	Patent Law 101, 102-1	Profits the defendant had gained through sales of its products.
9	No. 9806 (wa), 1986 Injunction against infringement of patent	Osaka District Court	Machinery	6 years	4,500,000	2,200,000	Patent Law 102-1	Net profit was calculated as to be 2,200,000 yen and the amount was applied as the damages.
10	No. 1627 (ne), 1991 Injunction against infringement of patent	Tokyo High Court	Machinery	11 years	22,240,000	22,240,000	Patent Law 102-1	Lost profits
11	No. 16565 (wa), 1992 Injunction against infringement of patent	Tokyo District Court	Automotive component	2 years	11,180,000 (68,870,000 + 42,930,000)	4,820,000 (68,870,000)x7% (42,930,000)x0%	Patent Law 2-3-1, 68, 100,102-2	Amount equivalent to royalty (7%)
12	No. 3743 (wa), 1989 Injunction against infringement of patent	Tokyo District Court	Agricultural machine	5 years	3,800,000 58'833'688	3,400,000 29,532,500	Patent Law 101, 102-1	Amount equivalent to royalty (1%)
13	No. 3746 (wa), 1989 Injunction against infringement of patent	Tokyo District Court	Agricultural machine	5 years	3,800,000	3,400,000	Patent Law 101,102-1	Amount equivalent to royalty (1%)
14	No. 10671 (wa), 1990 Injunction against infringement of patent	Tokyo District Court	Machinery	4 years	13,158,920 pc S1 V10001000 2501401	4,118,000	Civil Law 416,709 Patent Law 102-2	2,518,000 yen as 7.5% of sales. Legal costs: 1,600,000 yen
	Case No Mame	· Cócs	Asea		(V68) 60899 CORMO	Dadies à Manages (Yen)	Benjame.	Caldatalia,

Table 2 - Cost performance of patent suits in Japan

No.	Term of patent	Period of infringement (year)	Damages (10K yen)	Damages/ year	Remaining period of right (year)	Effect obtained by injunction (10K yen)	Damages + Effect obtained by injunction (10K yen)	Period from suspension of infringement to judgment (year)	Semi-effect obtained by injunction (10K yen)	Approximation of costs: hypothetic value (10K yen)
	S36/10/20 - S51/10/20	2.17	33	15	0	0	33	0	0	2,737
2	S55/10/13 - H07/10/13	4	5,85 3	1,463	7.6	11,121	16,974	1.3	1,902	1,926
3	S58/01/06 - H05/05/31	3	455	152	5.6	849	1,304	2.9	440	1,236
4	S52/02/21 - H04/02/21	2.67	13,360	5,004	4.25	21,266	34,626	3.5	17,513	3,871
5	S54/11/14 - H04/06/07	2.2	9,560	4,345	1	4,345	13,905	9.3	40,413	4,481
6	S46/03/10 - S61/10/12	8.2	22,509	2,745	0	Ö	22,509	0.5	1,373	9,351
7	S46/03/10 - S61/10/12	8	3,914	489	0	0	3,914	0.1	49	4,261
8	S54/06/25 - H06/06/25	4.8	645	134	1.7	228	873	1.6	215	1,700
99	S54/03/02 - H06/03/02	3.3	220	67	3	200_	420	5	333	1,743
10	S55/05/30 - H03/04/26	5.92	2,224	376	 70	0	2,224	2.5	939	3,447
11	H03/12/20 - H05/10/29	2.25	482	214	9.25	1,982	2,464	2.1	450	736
12	S56/03/24 - H07/07/09	3	340	113	1	113	453	6.3	714	1,476
13	S60/10/31 - H08/02/24	3	340	113	1.58	179	519	6.3	714	1,478
14	S56/08/31 - H06/02/13	3.17 [×]	412	130	0	0	412	0 0 0 0 0 2 3.2 6 4	416	1,311

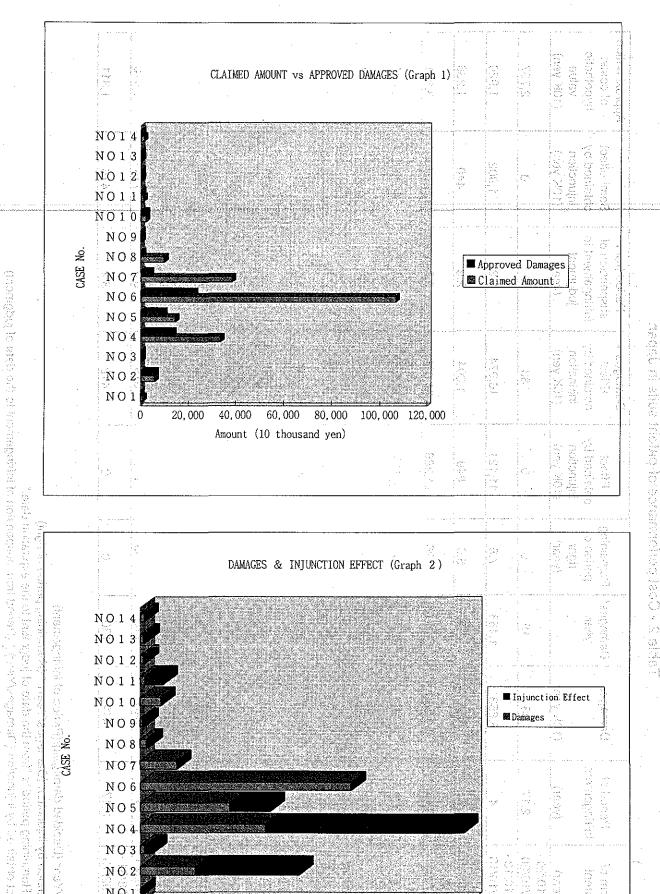
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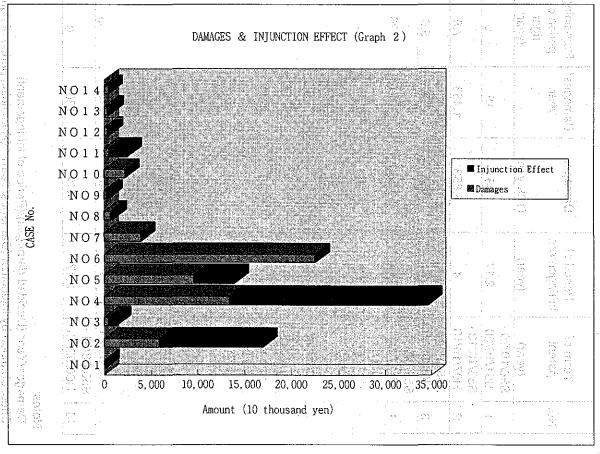
^{*}Damages/Year (Decided damages)/(Period of infringement)

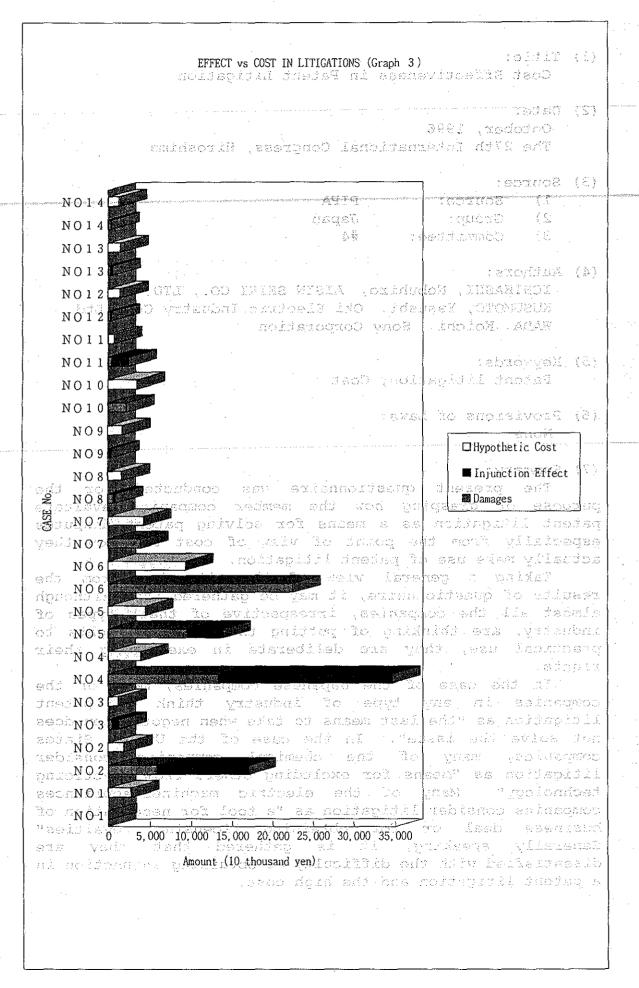
*Effect obtained by injunction (Damages/Year) * (Remaining period of right)

Remaining period is "from the date of judgment to the expiration date."

*Semi-effect obtained by injunction (Damages/Year) * (Period from suspension of infringement to the date of judgment)







- (1) Title: Cost Effectiveness in Patent Litigation
 - (2) Date:
 October, 1996
 The 27th International Congress, Hiroshima
 - (3) Source:

1) Source: PIPA
2) Group: Japan
3) Committee: #4

(4) Authors:

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WADA, Koichi, Sony Corporation

- (5) Keywords:
 Patent litigation, Cost
- (6) Provisions of Laws:
- (7) Summary:

The present questionnaire was conducted for the purpose of grasping how the member companies evaluate patent litigation as a means for solving patent disputes especially from the point of view of cost and how they actually make use of patent litigation.

Taking a general view of the situation from the results of questionnaire, it may be gathered that although almost all the companies, irrespective of their types of industry, are thinking of putting their patent rights to practical use, they are deliberate in exercising their rights.

In the case of the Japanese companies, most of the companies in any type of industry think of patent litigation as "the last means to take when negotiation does not solve the issue". In the case of the United States companies, many of the chemical companies consider litigation as "means for excluding others from practicing technology" Many of the electric machines-appliances companies consider litigation as "a tool for negotiation of business deal or for obtaining licensing royalties" Generally speaking, it is gathered that they are dissatisfied with the difficulty of obtaining injunction in a patent litigation and the high cost.

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Repanses Companies

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1. Preface

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The present questionnaire was conducted under the title of "Cost Effectiveness in Patent Litigation" for the purpose of grasping how the member companies evaluate patent litigation as a means for solving patent disputes especially from the point of view of cost and how they actually make use of patent litigation. The present analysis was performed for the purpose of contributing to the panel discussion to be held between the Japanese and the United States companies in the 27th International Congress.

2. Outline of Investigation by Questionnaire sales each sale

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Number of	question	naire-a	addresse	d compa	anies:	.E.a	su ameriO
Memb	er compar	nies of	Japanes	e Group	Þ	84	arodso
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Number of	answered	l compar	nies				
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adduawai	Machine-	metal o	companie	rs Syau	- ka in squor	11 1	us all ggs
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es AAS of	Chemical	compar	ies :	fais be	thall end I	32 0	isaubai
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Memb	er compar	ies of	United	States	Group	14	* .
	Machine-	metal o	companie	s		0	
ikobks	Electric	machir	es-appl	iances	companies	୍ର .5 ୁ	nederki
	Chemical	compar	nies		•	6	

Mimber of answered Companies yes yes we Bate

3. Results of Investigation and Analysis

Others

3000

3.1 In order to grasp the experiences of the Japanese and the United States companies relating to patent litigation, the number of companies who received and filled lawsuits with respect to patent infringements in the past five years were investigated.

Number of companies who have received a patent lawsuit

Japanese companies

Number of answered companies	ves		Rate of reception
iongraph sak conducted baden and	_		. "
Machine-metal endid the set of (11)			
Electric machines appliances (11)			
Chemical danded naiviles ask (32)	a 11 4 ad	21	34%
Others of the Jaco to walve it 1) as	् 0 अत्र		1.5.0 8 gen
Total and the second of (55)	24	31 % ACT	44%
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the held hetweet the papers and			
United States companies			
	• • •		Rate of
Number of answered companies	yes	no	reception
	_		-
Machine-metal standard (0)	iere S taasse	⊒ − 06 a	%
Electric machines-appliances (5)			
Chemical (20100000, 100000)			
Others 30 00000 00000 0000(03)		.,,	the state of the s
Total 88 deemed separt? be(13)		•	
· · · · · · · · · · · · · · · · · · ·			ilo medimon

Of the Japanese companies, 73% of the electric machinesappliances companies have experience of receiving lawsuits showing a high figure as compared to other types of industry. Of the United States companies, as many as 92% of the answered companies have the experience of receiving lawsuits.

Member companios of United States Geoup

Redriggroot Latterners Richalf

Chart cal cosponers

Number of companies who have ever filed a patent lawsuit

Japanese companies

Number of answered compa	nies	yes n	o Rate	
alegiment	does notifi	apumaua bati	in Results of	8
Machine-metal	(11)	5	6 45%	
Electric machines-appliances	s an (11) and g	. .5 1 vebu:	6 45%	Ž.
Chemical of pairwist solow	504 (32) 545	16 1	.6a∋ ∋a:50%∋a.	
Others bas bevieren odw gein	skp(o.1) fo	sa O forces er	1: worth 0%:	\$
Total one of edgesepolitical				
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United States companies) yesquee may silvered to reduce off

tively, in each	regeer belif	. bas u	redelva	lawsyktu,
o Number of answered co	mpanies 🔻 🔻	yes	ag no) ba	os ka Rąte go
en en en en en en en en en en en en en e	<u>. jigang ai </u>	inania.	<u> </u>	(sainston
Machine-metal	(0)		-	-8
Electric machines-applia	nces (14)	4	0	100%
Chemical	(5)	5	0 -	100%
Others	(3)	3	0	100%
Total		12		100%,

About half of the Japanese companies have experience of filing patent lawsuits and all of the answered United States companies have experience of filing patent lawsuits.

Next, the number of lawsuits (received and filing) classified by countries are as follows:

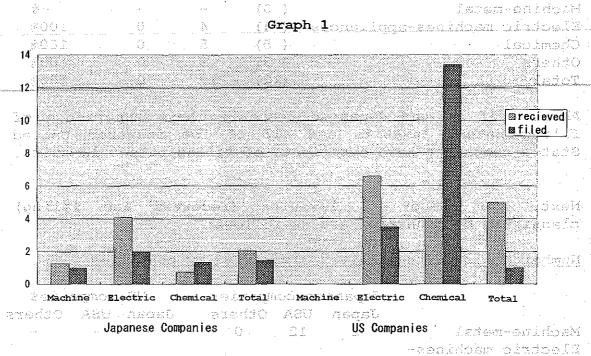
Number of lawsuits-received classified by countries

autok y	Japanese	companies	anamata e.USa,d	companies
	Japan U	SA Others	Japan	USA Others
Machine-metal	ino (1907) (1907) (1907) (1907)	L2 0 🕾	gansan Lompani	
Electric machines	-			
appliances	1 4	11 3	0	32 1
appliances Chemical		.0 6	O Same	16 4
Others	aggraph in the grant print a gr	n	and the state of t	- With William California
Total Total Total	iascu i n ee	3 9	1 ROJ 1	52 9 9 9
_ primasos balli.	insant io ni	amua epsue	CVS AS 19VS:	

Number of lawsuits-filed classified by countries

	Japane	mpanies	US companies			
	Japan	USA	Others	Japan	USA	Others
Machine-metal	3		edi ¹ yodi	1 -		<u>√.</u> , ∠ ·
Electric machines-	o otaya makazaTa	GARAB (1 Tan manina 15	tora I of the Section	- മിടുമാൻ . ത്രീ 'ക - ഇത് ിൽത്ര	isa Kanadari	. (22)
appliances	2 4 4 4	4	3 C to	O	12	2
Chemical	49	10	11	24	25	18
Others	0	0	0	0	2	1
Total	56	21	15	24	39	21

An overwhelmingly large number of lawsuits were received in the United States by the member companies. Further, the largeness of the number of lawsuits received in the United States by the electric machines-appliances companies is outstanding. The largeness of the number of lawsuits filed by the Japanese chemical companies is also significant. The number of lawsuits per company (total number of lawsuits, received and filed respectively, in each categorized companies divided by number of such categorized companies) are as shown in GRAPH 1.

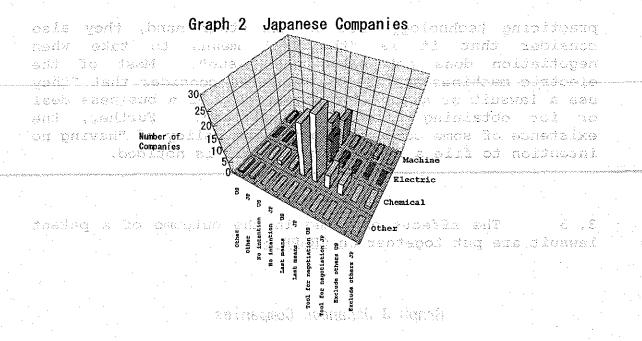


Of the Japanese companies, the electric machines-appliances companies have the largest average number of lawsuit-received. Of the United States companies, the chemical companies have an average number of lawsuit-filed towering above the others.

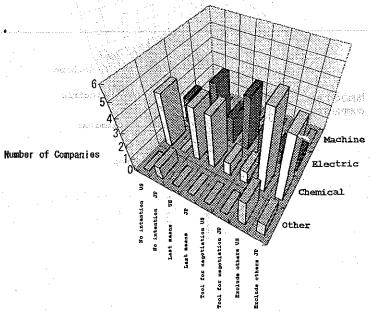
Japanese companies US companies. Japan USA Others Japan USA Others

3. 2 The ways how the answered companies think of patent litigation as means for enforcing their patents are put together in GRAPH 2.

An overwhelmingly large hymier of lawreaks were received in the United States by the marker companies. Further, the largeness of the number of levelits received in the United States by the electric machines appliances companies is outstanding. The largeness of the number of lawratts filed by the Japanese chemical companies is vise arguificant.





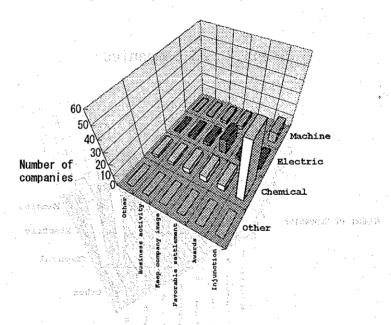


of the Japanese companies, who electron machine mates and cheetest dompanies equal function of infringing products. Reportably, the createst companies phow is ing thousand the circumstant panels of the

Most of the Japanese companies in any type of industry consider that "patent litigation is the last means to take when negotiation does not solve the issue". Of the United States companies, most of the chemical companies consider patent litigation as "means for excluding others from

practicing technology" but on the other hand, they also consider that it is "the last means to take when negotiation does not solve the issue". Most of the electric machines-appliances companies consider that "they use a lawsuit as a tool for negotiation of a business deal or for obtaining licensing royalties". Further, the existence of some companies having the policy of "having no intention to file a lawsuit in general" is noticed.

3. 3 The effects expected in the outcome of a patent lawsuit are put together in GRAPH 3.



Graph 3 Japanese Companies

Of the Japanese companies, most of the machine-metal and chemical companies expect "injunction of infringing products". Especially, the chemical companies show a big figure in this respect. On the other hand, most of the electric machines-appliances companies expect the effect of "making a settlement more favorable". It appears that the electric machines-appliances companies consider patent litigation as the last means to take as a part of negotiation for a settlement. In contrast, the GRAPH shows that most of the machine-metal and chemical companies seek

"injunctions" when using a lawsuit as the last means to take. It is noted that even when observed separately, both the Japanese and the United States companies show the same tendency.

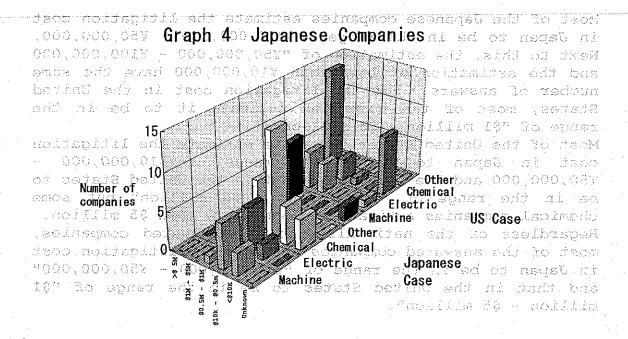
Regardless of the types of industry, most of the United States companies answered that patent litigation made their business activities more beneficial or profitable. Next to this, most of the electric machines-appliances companies expect "temporary injunction" while most of the chemical companies expect "permanent injunction" and "a more favorable settlement".

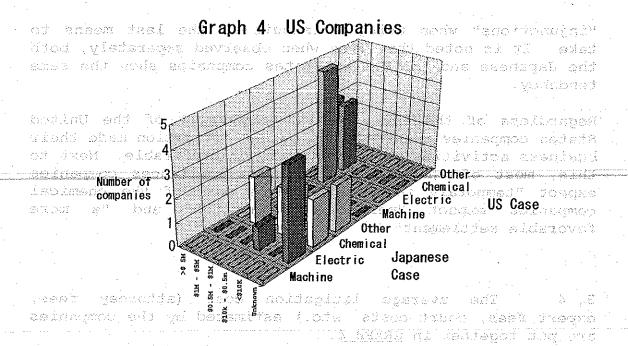
3. 4 The average litigation cost (attorney fees, expert fees, court costs, etc.) estimated by the companies are put together in GRAPH 4.

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Most of the Japanese companies estimate the litigation cost in Japan to be in the range of \$\Pi10,000,000 - \Pi50,000,000. Next to this, the estimation of "\Pi50,000,000 - \Pi100,000,000 and the estimation of less than \Pi10,000,000 have the same number of answers. For the litigation cost in the United States, most of the companies estimate it to be in the range of "\Pi1 million - \Pi5 million".

Most of the United States companies estimate the litigation cost in Japan to be in the range of \(\frac{\frac{1}}{10}\),000,000 - \(\frac{\frac{1}}{50}\),000,000 and the litigation cost in the United States to be in the range of "\(\frac{\frac{1}}{1}\) million - \(\frac{\frac{5}}{5}\) million" but some chemical companies estimate it to be more than \(\frac{5}{5}\) million. Regardless of the nationality of the answered companies, most of the answered companies estimate the litigation cost in Japan to be in the range of "\(\frac{\frac{1}}{10}\),000,000 - \(\frac{\frac{1}}{50}\),000,000" and that in the United States to be in the range of "\(\frac{1}{5}\)1 million - \(\frac{5}{5}\) million".

3.5 mill We asked the companies for their free comments on the following questions to be issue and as end to your a What factors does your company think are important in the dusing a patent lawsuit effectively? Is but assem is a terms of cost effectiveness? To your year and and additionable past, that there been a change in the does awareness or vecognition aim your company tregarding patent lawsuit?

[Mechanical companies]

Many companies consider that in views of cost at the use of patent litigation should be avoided by all means but at the same time, some companies consider that it is unavoidable lawsuit for protecting stheir sowns rights sand interests. For to noiseighl and dilw dato to neitheleve ed? conri cost but also the man-hours and the influence on Electric machines-appliances companies loopbace shared Some of the companies consider a law uit as the last means for settlement of negotiation while considering that some amount: of costaiss unavoidables for protecting athein town rights. Further, some companies are of the opinion that it is preferable to settle the issue by negotiations and for purpose, the significance of the as existence so of litigation should be recognized. Some companies have the ideasethatiseas scertains degree scof cunderstanding discisnow prevailings that sals assuit is means of or negotiations as a sold of infijedement and etc. Perther, there was an opinion to [Chemicalrecompanies] Dig. si daemalddor s dadi grafild add When the litigation cost is taken into consideration, there is other idea of ataking into consideration of onote only attorney sees but also the meritaof vinjunctions (In the case of a pharmaceutical productor a main product; there isserther ideasorthat; ascilawsuite should becoused seven aby disregarding the cost problem to some degree design do idw at

Throughout the types of industry, almost all companies are of the opinion that when strying to use a patent lawsuit; they betake a into densideration of pacost, balancing by conducting a cost evaluation in advance without fail and meet the situation by generally judging its from every angle is on the other hand, there are many companies who are of the opinion that the number of cases distincreasing in which they enter into negotiation with other companies with an attitude of being always ready to use a lawsuit based on

the strong idea of protecting their own rights. Further, many of the machine-metal and electric machines appliances companies attempt to solve the dispute by negotiations by all means and at the same time, even when a lawsuit is brought in, they still seek a way to reach an agreement. On the contrary, many of the chemical companies consider that they exercise a patent right as an exclusive right for which it is originally intended. It may be said that such idea is based on the recognition peculiar to the chemical industry that apart from taking an action for damages, if the action for injunction was successful, the exercise of the patent right would be sufficiently effective in view of cost.

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- (1) Title: The Affect of Markman on the Cost of Patent Litigation
- (2) Date: October, 1996 (The 27th Convention in Hiroshima)
- (3) Source:
 - 1. Source: PIPA
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- (4) Author: Edward Blocker, U.S. Philips Corporation and anti-
- (5) Key Words: "Claim Construction", Claim Interpretation", "Markman Hearing", "JMOL", "JNOV"

(6) Statutory Provision:

Fed. R. Clv P. 12(b)(6), 56

(7) Abstract:

It has been unclear for a number of years whether a judge or the jury is to make factual determinations relevant to claim interpretation because of the inconsistent treatment of this issue by the Court of Appeals for the Federal Circuit. The Supreme Court's recent affirmation of the Federal Circuit Markman v. Westview Instruments, Inc. decision ends further speculation and makes clear that the judge rather than the jury is responsible for determining how a patent claim is to be interpreted. The key procedural question left unanswered by both the Supreme Court and the Federal Circuit revolves around timing, that is, when during the course of litigation should the district court interpret the claims. Such timing will significantly affect the cost of patent litigation. When claims are interpreted through hearings well before trial, the litigation process can be streamlined and can lead to early settlement or summary judgement before trial. A significant cost savings may be realized. This paper will explore many of the factors affecting the cost of patent litigation in view of the Markman decision.

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I. Introduction

In Markman v. Westview Instruments Inc. 1, the U.S. Supreme Court (hereinafter referred to as the "Court") held that there is no Seventh Amendment right to a jury trial in determining the interpretation of a patent claim. The unanimous ruling by the Court settles once and for all that in a patent infringement suit, the judge rather than the jury is responsible for determining how a patent claim is to be construed. Although the jury remains responsible for determining whether the patent has been infringed, the judge's interpretation of the patent claims at issue often makes clear whether the accused product literally falls within the scope of the patent claim. The jury's role clearly has been reduced and often may be no more than a trivial legal exercise.

The Count's affirmance of the Federal Circuit decision has been, as was the Federal Circuit decision before it, widely heralded as a landmark patent case because of its impact on the issue of literal infringement. The Federal Circuit decision has resulted in changes in the way patent litigation is conducted. These changes can include hearings, at the discretion of the judge, commonly referred to as "Markman" bearings, outside the presence of the jury and before the jury trial begins. At the Markman hearing, the judge determines how the patent claims at issue are to be interpreted. Other courts hear evidence on patent claims during the trial and prior to jury deliberations instruct the jury as to their interpretation.

How these and other changes will affect the cost of patent litigation is uncertain.

Views have dramatically differed as to cost savings. Predictions have ranged from little, if any, affect to significant cost reductions due to the relatively early determination of claim construction by the court. Conclusions as to cost savings, many of which can be drawn based on several post - Markman cases, will be reviewed in detail following a brief description of the state of the law prior to Markman and the Markman case itself.

II. Background - The State of the Law Before Markman

A number of old Supreme Court cases have held that claim construction is ultimately a matter of law, and in Markman the issue was not seriously in dispute. Rather, what divided the Federal Circuit were factual disputes which could arise during claim construction, and, if so, how they should be treated. The first Federal Circuit case to address the issue, SSIH Equipment S.A. v. United States International Trade Commission, held that claim construction is a matter of law. Following this case a line of Federal Circuit opinions continued to hold that claim construction is strictly a matter for the court. A second line of cases developed, however, which held that there are factual determinations relevant to claim construction. The first such case was McGill, Inc. v. John Zink Co⁷ and culminated in Tol-O-Matic, Inc. v. Proma Produkt-Und Marketing Gesellschaft m.b.H. In Tol-O-Matic, the court held that interpretation of certain claim language "required that the jury give consideration and weight to several underlying factual questions including the description of the claimed element in the specification, the intended meaning and usage of the claim terms

by the patentee, what transpired during the prosecution of the patent application, and the technological evidence offered by the expert witnesses."

The Court's affirmation of the Federal Circuit's Markman decision ends the previously inconsistent treatment of claim construction and adopts those line Federal Circuit of cases which hold that claim construction is exclusively a matter of law.

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III. The Markman Decision

A District Court

Herbert Markman, the owner of U.S. Reissue Patent No. 33054 for an "Inventory Control and Reporting System for Drycleaning Stores," sued Westview Instruments, Inc. and Althon Enterprises, Inc., an operator of dry-cleaning establishments using Westview's products (collectively, "Westview") alleging infringement of his patented system for monitoring dry cleaning inventory. Westview argues that its system merely records an inventory of receivables while in contrast, Markman's patented system records and tracks an inventory of articles of clothing.

The Markman patent is directed to a computerized system for keeping track of dry cleaning and laundry inventory. When customers bring in clothing to be cleaned, the Markman system generates a customized written record including management and customer receipts plus bar-coded tags. These tags can be attached to individual items of clothing and thereafter scanned at any point during the drycleaning process in order to track the items and detect spurious additions or deletions from inventory.

The accused Westview device also generates bar-coded tickets or invoices listing similar customized information, but does not permanently retain in memory any information about the articles of clothing to be cleaned. Only the invoice number, date and cash total are retained in permanent memory in the Westview system. Thus, the Westview system tracks only invoices, not articles of clothing.

Claim 1 of the reissue patent requires that the system include a data processor having "means to maintain an inventory total" and to "generate at least one report of said total," and that the system be able to "detect and localize spurious additions to inventory as well as spurious deletions therefrom."

Westview moved for judgment as a matter of law (JMOL) at the close of Markman's case in chief, but the trial court denied the motion and instructed the jury to determine the meaning of the claims in connection with deciding infringement. In returning a general verdict of infringement, the jury interpreted the term "inventory" as covering both receivables and articles of clothing. Westview renewed its JMOL motion. This time, the trial court granted the motion, holding that claim construction is a question of law for the court. The trial court held the expert's "artificial interpretation" of key claim terminology was contrary to the patent specification, the prosecution history, and the customary meanings of the claim terms. That is that "inventory" means "articles of clothing," not just dollars or invoices. That Westview's accused system has no means for maintaining "inventory," thus defined, in memory. Nor would an interpretation of "inventory" as meaning only cash

dollars and not clothing articles make sense in light of the claim 1 requirement that the system be capable of detecting spurious "additions" to inventory.

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B. Rederal Circuit

Markman appealed to the Federal Circuit which decided, en bane, that the District Court did not err in taking the issue of claim construction away from the jury¹³. The majority concluded that "the interpretation and construction of patent claims, which define the scope of the patentee's rights under the patent, is a matter of law exclusively for the court. "14 The Federal Circuit's holding that patent construction is a question of law follows immediately from its decision to base the meaning of the claims solely on the patent application itself, that is, on the claims, the specification, and the prosecution history. Extrinsic evidence such as expert testimony as to the meaning of terms or the state of the arr is not determinative, though it can still be persuasive.

The majority analogized the construction of patent claims to the interpretation of statutes, another matter of law strictly for the court. Both are fully integrated "written instruments" that historically have been interpreted by the courts. Patents, like statutes, are public documents which are deemed to be known to all persons and enforceable against them. "Extrinsic evidence" (such as the testimony of Markman's expert or Westview's product brochures) must only be used to aid the trial court's "understanding of the patent, not for the purpose of varying or contradicting the terms of the claims." When the trial court chooses to admit such extrinsic evidence, the trial court, though assisted and enlightened thereby, is not making credibility determinations or evidentiary findings of a factual nature.

Circuit Judge Mayer, concurring only in the result strongly challenged on Seventh Amendment grounds the majority's denomination of claim construction as a question of law. He contended that the majority's decision "is not just about claim language, it is about ejecting juries from infringement cases. . . . [because] to decide what the claims mean is nearly always to decide the case. "16

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C. Supreme Court

The Court granted Markman's petition for certiorari for the following question: In a patent infringement action for damages, does a right to a jury trial exist under the Seventh Amendment of the U.S. Constitution for factual disputes about the meaning of a patent? The Seventh Amendment provides that "[i]n suits at common law, where the value in controversy shall exceed \$20, the right of trial by jury shall be preserved". The right to a trial by jury is the right which existed under the English common law when the Seventh Amendment was adopted.

According to the Court, which unanimously affirmed the Federal Circuit, the most similar 18th century analogy to modern claim construction was the construction of a patent specification. From the few patent cases available during that time period, the Court found no established jury practice sufficient to support an argument that today's construction of a claim should be a jury specific issue. The Court asserted that there is no reason to infer

that juries supplied the complete interpretation of written instruments in patent litigation when judges ordinarily consumed such written documents.

The Court recognized the jury's traditional responsibility in assessing the credibility of an expert witnesses, but concluded that credibility is not a significant factor in patent claim analysis. The expert's credibility, according to the Court, is only one aspect of the multifaceted exercise of claim construction and, in any event, the expert's testimony must be consistent with the patent as a whole. In short, the Court concluded that a judge's skills in interpreting the claims outwelgh any benefit of having a jury assess the credibility of an expert.

The Court's decision was also spurred by its stated goal of providing greater uniformity in patent claim interpretation which the Court reasoned would be more likely achieved by having such interpretation determined exclusively by the courts. According to the Court, such uniformity will promote the public interest by strengthening the U.S. patent system, which in turn will foster the development of technology.

IV. Markman's Impact

How Markman will affect the cost of patent litigation remains uncertain. Post-Markman patent litigation strategies with respect to the resolution of patent interpretation issues involving infringement can have a significant impact on the cost of patent litigation. In developing strategies to minimize the cost of patent litigation, one should be mindful that:

- Courts increasingly are conducting Markman hearings, particularly in the context of summary judgment motions. See e.g. Elf Atochem N. Am, Inc. v. Libbey-Owens-Ford Co.¹⁹; Loral Fairchild Corp. v. Victor Co. of Japan, Ltd.²⁰ and Moll v. Northern Telecom, Inc.²² The parties through these Markman hearings are provided with an explicit explanation as to how the claims at issue are to be literally interpreted.
- 2. Such hearings are often conducted well before trial and usually involve expert witnesses experts who assist the court in its interpretation of the claims. Since the issue of claim interpretation is central to any resolution of infringement issues in patent litigation, parties in pending cases will increasingly move for an early resolution of the claim construction issue either under Rule 12(b)(6) or Rule 56 of the Federal Rules of Civil Procedure.

- 3. District courts are now looking at revising local rules in order to accommodate the Markman decision. Such revised local rules, which can require the parties within the first year of the lawsuit to identify all disputed terms within the claims, provide support for their interpretation of these disputed terms and list all witnesses who are available to testify regarding the meanings of these disputed terms, will allow the courts to determine whether Markman hearings are required and, if so, to hold such hearings at a relatively early stage of litigation.
- 4. Markman hearings can streamline the litigation process and reduce the burden of pursuing an infringement action. The decision can serve as a powerful tool to help resolve cases at an early stage. The interpretation of the claim is often the key issue in patent cases. Once the meaning of disputed patent language is decided by a judge, the parties may then move quickly toward settlement or summary judgment.
- 5. Far fewer expert witnesses are expected to be required during a Markman hearing as compared to a trial. See Markman v. Westview Instruments, Inc. 52 F. 3d 967, 983 (Ped. Cir. 1995) ("the court has complete discretion to adopt the expert legal opinion as its own, to find guidance from it, or to ignore it entirely, or even to exclude it.") (citations omitted); Mall, 37 USPQ2d at 1843 ([T]he decision to utilize extrinsic evidence rests solely with the trial judge ... and is to be used only for the purpose of assisting the court in understanding the patent"). See also GTY Indus. v. Gentyre Group Inc., 38 USPQ 1801 (C.D. CA 1995)²⁴. With potentially far fewer expert witnesses required for a Markman hearing, costs normally associated with expert witnesses during the course of a trial may be substantially reduced.
- 6. The standard of review on appeal from a jury trial has changed. In a jury trial, issues of fact are for the jury to decide, while questions of law are for the judge? On appeal, the jury's verdict is reviewed by first distinguishing between its factual and legal components, with factual conclusions upheld if they are reasonable ("substantial evidence" standard), and implied legal conclusions subject to de novo review. Since claim construction is a matter of law, the Federal Circuit has determined that claim construction is subject to a de novo review on appeal? In other words, all aspects of claim construction will be reviewed de novo including any underlying fact findings.
- 7. The jury's ultimate role in determining infringement, however, will not be settled until the Supreme Court decides Hilton Davis Chemical Co. v. Warner-Jenkinson Co.²², which is expected to be decided during the next term of the Supreme Court. Hilton Davis relates to the second prong of the infringement analysis, that is, the doctrine of equivalents.²³ The Federal Circuit in Hilton Davis reaffirmed the longstanding practice of having the jury decide the issue of infringement under the doctrine of equivalents.³⁰ Hilton Davis holds that the doctrine of equivalents remains a jury issue, that there is no threshold equitable determination required by the court before the issue can go to the jury, and that the legal standard governing the

jury's decision is whether the differences between the defendants' product and the patent claim are "insubstantial." Affirmance by the Court of the Federal Circuit decision would no doubt constrain to some significant degree the effect of Markman on the conduct of patent litigation. For example, a court, knowing that the doctrine of equivalents issue will have to go to the jury, may decide to forgo a Markman hearing on claim interpretation and literal infringement, opting instead to satisfy its claim interpretation responsibilities in its jury instructions.

8. The use of a Markman hearing complicates patent litigation because it forces attorneys to prepare for another hearing which, of course, includes the preparation of expert witnesses. The Markman hearing is essentially a mini-trial on claim construction. The cost associated with a Markman hearing may be substantially offset by separating out complicated interpretation issues which would otherwise be addressed during the jury trial.

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- There can be several drawbacks to holding a Markman hearing. Instead of a jury making a determination on patent claims considering various kinds of evidence, a judge will determine claim construction with much less evidence before him. The count may decide the claim construction issues separately and without the benefit of hearing the whole case. The significance of passages in the specification and file history is often bener understood when the background of the prior art, the history of the invention and the overall commercial setting are fully explained, as usually happens at a trial. In a separate Markman hearing, presentation of prior art background and history of the invention are likely to be more limited. The increased costs associated with a trial may be well worthwhile in order to permit the judge to interpret the claims in context with the overall case.
- 10. If Markman spurs more summary judgment rulings, its effect may be to slow down the judicial process as those rulings are appealed to the Federal Circuit, which usually takes about a year to decide. Parties would then have the burden of having to pay for two appeals (interlocutory appeal regarding claim construction as well as appeal from final decision by the district court) rather than one appeal (appeal from final decision of the district court).
- 11. "The 'obligation' created by the Federal Circuit to instruct the jury on the meaning of the words used by an inventor in a claim basically leaves a district court with three options. The court can attempt to resolve these disputes on the paper record [, for example, in the context of ruling on a motion for summary judgment of claim interpretation]. Second, the court can hold a trial to resolve the disputes [, for example, hold a Markman beach trial prior to the main jury trial]. Finally, the court can wait until trial and attempt to resolve claim disputes the evening before the jury must be instructed." This last option, that is, determining claim construction just prior to jury deliberations would have essentially no affect on the cost of patent liftgation.

- There is a significant advantage to the defendant in moving for a Markman hearing. The defendant can raise any number of arguments for avoiding infringement by construing various claim elements narrowly, and presenting all of these arguments to a judge at the hearing. By distinguishing the alleged infringing product from the claim, the defendant avoids literal infringement. The defendant need not be concerned about the otherwise confusing and diluting effects of presenting too many arguments to the jury at a trial. The Markman hearing encourages defendants to present different claim construction arguments in order to maximize their statistical chance of avoiding both infringement before trial and costs associated with going to trial.
- By not holding a separate Markman hearing and waiting until after the presentation of evidence at trial to resolve claim construction issues, the parties are forced either to present evidence under alternative claim interpretations or to risk presenting their entire case based on a claim interpretation which later turns out to be erroneous as explained by the judge to the jury in his instructions to the latter. Litigants generally will be unwilling to risk everything on a claim interpretation that is not yet decided.
- 14. The key procedural question left unanswered by Markman is timing when during the course of a litigation should the district court interpret the claims? The affect of Markman on the cost of litigation ultimately revolves around the answer to this question. Many district courts have resolved the question by conducting Markman heurings early on in the case. The court, however, is under no obligation to interpret a claim conclusively or finally during the hearing and can at its discretion delay interpreting the claim until the jury is ready to deliberate.³³

V. Conclusion

Markman will undoubtedly affect how patent litigation is conducted and consequently the cost thereof. Through Markman hearings, which are increasingly being conducted, early resolution of claim interpretation issues can be had by the parties which, in turn, can facilitate settlement discussions or lead to summary judgment before trial. The Markman hearings will typically require far fewer expert witnesses than at trial. Cost savings also may be realized through the use of fewer expert witnesses who are limited to selected technical issues as raised by the judge.

These and other cost savings are dependent on when during the course of litigation the judge interprets the claims. The judge is not obligated to hold a Markman hearing and, even if held, can postpone until providing instructions to the jury as to how the claims are to be interpreted.

The degree to which and over what period of time before Markonen affects the cost of patent hithgation temains to be seen and likely will require several more years before its affect can be fairly evaluated.

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- 3. See, e.g., Bases v. Coe, 98 U.S. 31, 38-39 (1878) ("In construing patents, it is the province of the court to determine what the subject matter is upon the whole face of the specification and the accompanying drawings."); Winans v. Denmead, 56 U.S. (15How.) 330,338 (1853) ("[T] wo questions arise." The first is, what is the thing patented; the second, has that thing been constructed, used, or sold by the defendants. The first is a question of law, to be determined by the court, constraing the letterspatent, and description of the invention and specification of claim annexed to them. The second is a question of fact, to be submitted to a jury."); Slisby v. Foote, 55 U.S. (14 How.) 218, 225 (1852) ("The construction of the claim was undoubtedly for the court.")

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- 4. 718 F.2d 365 (Fed. Cir. 1983).
- 5. Id. at 376. ("With respect to infringement, the question of what is the thing patented" is one of law.") (quoting Winans,, 56 U.S. (15 How.) at 337).

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- 10. 772 F. Supp 1535 (E.D. EPa 1991).
- Markman v. Westview Instruments, Inc. 772 F.Supp. 1535,1536 (E.D. Pa. 1991) 11. (emphases added). At he promine the colour constrict a because 1610 and 1

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- 16. Id. at 989.
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Total S.E., Read Corp. v. Horse, Inc., SHO H. 2d 816, 221 (Ped. Ch. 1992)

- 18. Id. (quoring from Parker v. Hulme, 18F. Cas. 1138, 1140 (No. 10,740) (CC ED Pa. 1849).
- 19. 894 F. Supp. 844 (D. Del. 1995). (In response to cross-motions filed by the parties for a partial summary judgment on the Issue of infringement an evidentiary hearing was held to resolve the meaning of disputed terms in the patent claims at issue)
- 21 37 USPQ 2d 1839 (E.D. Pa. 1995)
- 22. Rule 12(b)(6) concerns a Motion for Judgment on the Pleadings for failure to state a claim on which relief can be granted; Rule 56 concerns Motions for Summary Judgment.
- For example, the District Court for the Northern District of California has proposed 23. new local rules of practice which require the parties within about the first ten months of the lawsuit to specify any special or uncommon meanings of words in the claims. identify all references from the specification that support, describe or explain each element of the claim, identify all passages from the prosecution history that describe or explain each element of the claim and identify all extrinsic evidence that further supports the construction of the claim, including, but not limited to expert testimony. inventor testimony, dictionary definitions and citations to learned treatises. The parties within these first ten months must identify the construction of those claims and terms on which they agree and on which they disagree and suggest jointly agreeable dates for a hearing on all disputed issues of claim construction. Any party who would like to call one or more witnesses as part of that party's case in chief at the claims construction hearing must identify each such witness, describe the subjects that his or her testimony will cover and estimate the time that the witness' direct examination will consume. Moderne v Přinice Amoren, Inc. 77. P.Sapp. 1555, 1556 (S.D. Sa. 199
- 24. The court granted a defense motion to bar testimony of the patentee's "patent law expert" witness. The court reasoned that the only "extrinsic evidence" (i.e. evidence other than the patent and its prosecution history) which it can properly receive under Markonan is technical in nature. The court would not permit expert testimony which "coalesces the testimony of fact witnesses and technical experts, presents a foundation of understanding regarding the patent system . . . and presents a coherence between the factual and the legal patent documents such that the Court may establish claim scope and the trier of fact may apply that scope to the issues of infringement." Id. at 475.

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- 25. Walker v. New Mexico & Southern Pacific R.R., 165 U.S. 593, 596 (1897).
- 26. See, e.g., Read Corp. v. Portec, Inc., 970 F. 2d 816, 821 (Fed. Cir. 1992)

- 27. Marloman, 52 F.3d at 979.
- 28. 62 F3d 1512 (Fed Cir. 1995), cert. granted, 116 S.C. 1014 (1996).
- 29. The doctrine of equivalents is intended to discourage infringers from making "unimportant and insubstantial changes and substitutions in the patent which, though adding nothing, would be enough . . . [to evade] the reach of law." Graver Tank & Mfg. Co v. Linde Air Prods. Co., 339 U.S. 605,607 (1950).
- 30. Vigorous dissents in Hilton Davis argued that the Issue is a question for the court, not the jury. Indeed, Circuit Judge S. Jay Plager in a dissent in which three other judges joined urged that the doctrine is equitable in nature, and therefore an Issue for the court. In this way, Judge Plager's approach would prevent the "unfettered" use of the doctrine by juries and would result in more public certainty with respect to the scope of patents the same goal the Supreme Court articulated in the Markman opinion.
- 31. Elf Arochem North America Inc. v. Libbey-Owens-Ford Co., 37 USPQ2d 1065, 1069 (DC Del 1995).
- 32. Johns Hopkins University v. Cellpro, 894 F. Supp. 819 (D. Del 1995). During the course of the trial the parties submitted proposed final jury instructions which included instructions as to the interpretation of six disputed portions of the claims in suit. The parties also presented arguments which referred to testimony and evidence offered during the trial. On the eve of the last day of trial, the court issued the cited opinion, which included the final jury instructions including the court's construction of the disputed claim terminology
- 33. In Sofamor Danek Group, Inc. v. Depuy-Morech, Inc., 74 F.3d 1216 (Fed. Circ. 1996) the Federal Circuit clarified that "the trial court [which denied patentee's motion for a preliminary injunction following a three day hearing on claim construction] has no obligation to interpret [a] claim . . . conclusively and finally during a preliminary injunction hearing. Under Markman, claim interpretation is a matter of law. However, Markman does not obligate the trial judge to conclusively interpret claims at an early stage in a case. A trial court may exercise its discretion to interpret the claims at a time when the parties have presented a full picture of the claimed invention and prior art Id. at 1221.

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- 28. 62 Fig. 1512 (Fed. Ch. 1995), new growind, 116 S.C. 1914 (1994).
- 29. The destine of equivalents is intended to discourage infragers from multing turning consists and isoshing changes and exhausting in the permit which, though softing tooking, weak to enough. [to evalui] the teach of low? Graver Orek A high, to a Linke to reads. On., 339 U.S. 1965,837 (1999).
- Vigazen chemia in Mina Dane ingresi inn in come in a question for the case, come bee pay. Indeed Circuit todge 2. By Plager in a disease in which there either judge journal united that the destrict is exclude to centre, and describes an issue for age case. In this way, todge Plager's approach sently prevent the waterness's east of the circuits by judge and wash report to make public certainty with angely to the centre of patents the mass fresh the capanian Court privates in the highest propagation of patents.
- 31. Zig Arochem Anoth Amorico Inc. v. Libber-Quene-Food Co., 37 (1988), 1968, 1969.
 Oct. 1244 1895;
- (a) John Angelen Ordanisty v. Calgon, 1995 F. Suga, 219 (D. 1921) 1923. Desting the course of the wind the parties exhibited progresses than Jany Indianaties which is actioned as to the integration of the cases, to see the cases of the cases, to said the parties of the cases, to said the parties of the cases of the cases with meaning to restrainly and exhibite collisist destrict the case that of the back destrict the case that of the cases have destroy of the cases have the cases of the case
- 55. In Software Livson Group, Inc. 11 Depring Massest, Inc. 75 E.12 1116 (Fed. Cite. 1998)
 the Federal Critical charles ind. Me trial coun [within derival parametric resident for a preferentiate; ingratefue followings a three day hearing on chain constructions) has no children to manager [2] chain. Critical system of the gradual parametry of the analysis of the manager of the charles and parametric force and obligate the ability of the analysis of the charles at the carry stage in a case. A trial mant may countries in disciplinal to the chainst the charles at a fine when the parametric trial invention and principle of the chainst.

