DISTRIBUTION OF PATENTS ISSUED TO CORPORATIONS (1939-55)

STUDY OF

THE SUBCOMMITTEE ON PATENTS, TRADEMARKS.

AND COPYRIGHTS

****COMMITTEE ON THE JUDICIARY

UNITED STATES SENATE

EIGHTY-FOURTH CONGRESS

SECOND SESSION

Phase Programme PURSUANT TO

 $S. Res. 167 \ \mathrm{Matter} \ \mathrm{Sec}$ Frein Derenn, Conseiter

Study No. 3

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Printed for the use of the Committee on the Judiciary

UNITED STATES GOVERNMENT PRINTING OFFICE WASHINGTON: 1957

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FOREWORD

In carrying out its responsibility to make a broad survey of the patent statutes, the subcommittee has undertaken to determine the facts as to how the patent system is actually working in practice. The logical starting point for such an inquiry is the compilation of available data showing who obtains and owns the vast number of unexpired patents in existence today. Accordingly, at the subcommittee's request, the Patent Office has compiled the data and information presented herein showing the number and distribution of patents unexpired on December 31, 1955, which were issued to corporations, and other related information. The work of compilation was done under the direction of P. J. Federico, examiner-in-chief in the Patent Office, who also prepared the report.

The sources of the information and the manner in which it was compiled is carefully explained in the report. The report is substan-

tially limited to the presentation of the data.

The subcommittee is indebted to the Patent Office and Mr. Federico

for the preparation of this report.

JOSEPH C. O'MAHONEY, Chairman, Subcommittee on Patents, Trademarks, and Copyrights,

Committee on the Judiciary, United States Senate.

DECEMBER 29, 1956.

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read to a company of the rompany the state potential the main object of this report is to present data with respect to the number and distribution of patents, unexpired on December 31, 1955. which were issued to corporations. Discussion is limited to description of the data and the manner in which the figures were obtained. The data presented relate primarily to the two questions which were asked, namely: your event four of house, less of but four

(1) Which companies have taken out the largest numbers of unexpired patents?

(2) How many unexpired patents have been issued to a selected

group of the largest corporations? Othe College Should be should b

These two questions are not identical since some companies to which a large number of patents have been issued might not be in the large corporation group, and some companies in the large corporation group might have very few patents. The phrase "issued to corporations" is synonymous with "taken out by corporations" but, as will appear, is not exactly equivalent to "owned by corporations." In addition to the above, some figures are presented on the total number of patents issued annually to corporations over a period of 20 years. Reissues, design patents, and plant patents are omitted from this study. Reissues, which averaged 185 a year during the period involved, are revisions of previously issued patents and their inclusion would amount to counting some patents twice. Design patents are omitted because they relate solely to the ornamental appearance of articles; they averaged 3,749 a year during the period involved. Plant patents are issued for new varieties of plants; these averaged 67

during the years 1939-55. Agreements of the order of the sold and are given that to 1850 provided less topo 1960 to the mediacom year, as the neighborates

- Table of the 2. Issuance and ownership of Patents and islanded that the land of the land

a year. The "regular" patents considered averaged 34,494 per year

While the application for a patent must be made and sworn to by the inventor (with some exceptions not important here), the patent itself may be issued to another party. If the applicant has assigned his rights, and the assignment is recorded in the Patent Office in time, the patent will be issued to the assignee. The printed copies of the specification and drawings of the patent carry the name of the assignee as the owner, as do the notices in the weekly Official Gazette of the United States Patent Office. These names also appear in a printed annual Index of Patentees, and a cumulative index of patentees in card form has been maintained in the Patent Office since 1931. The figures presented here with respect to separate companies have been gathered from this cumulative index and are hence in general limited to ownership at the time the patent is issued.

A company can own a patent by assignment from the inventor, or by assignment from someone else whose rights were in turn derived from the inventor. If an invention is made by an employee of a company under conditions which obligate the employee to assign all

rights to the company, the assignment is usually recorded in the Patent Office while the application for patent is pending, and the patent in such cases is issued to the company. Similarly, if a company acquires ownership from someone outside the company before the patent is issued, the assignment is ordinarily recorded in the Patent Office and the patent issued to the company. The patents issued to a company hence are the sum of the patents resulting from the research activities of the company itself and the patents resulting from inventions purchased from others before the patent is issued. The instances in which an assignment is made but is not recorded, and hence the patent is not issued to the company, are not believed to be significant in number but we at recount out how also odd to

A company may also acquire a patent after it has been issued to some individual and the assignment in such cases may also be recorded in the Patent Office. The indexes which have been mentioned do not include such transfers and the data presented here do not include patents owned by a company which were acquired after they were issued. A study made in 1938 showed that, of the patents issued from January 1, 1931 to June 30, 1938, the number acquired by corporations from individuals after issuance was 2.84 percent of the total issued (of this amount 0.33 percent was by a selected group of 157 large corporations, 2:22 percent by other United States corporations and 0.29 percent by foreign corporations). This gives some indication of the proportion of such subsequently acquired patents and there is no reason to suppose that the number would be significantly different of patents issued annually to corporations over a neriod of 20-vebot.

A company may also acquire patents from another company to which they were issued in the first place. Such acquisitions would not change the total number of patents issued to corporations but might change the distribution as between types or classes of corporations. Such transfers have not been investigated but a good many of them have been taken into account as will appear. however yould real office

The total number of unexpired patents owned by a particular corporation consists of the number of unexpired patents initially issued to that corporation plus the number of unexpired patents acquired by the corporation after they were issued to someone else, less the number of patents it may have transferred to others. This number can be ascertained from the assignment records of the Patent Office, but the time and personnel which would be required to make title searches for the large numbers of patents involved were not available for the present study, and the cost would be very great hours of formal and warre

As has been pointed out, the present study is substantially limited to ownership by corporations at the time the patent is issued, but the degree in which the data approximate total ownership has been indicated to some extent. The of a sociou of the round of as absented a minor of social social social social social and to the minor of social social social social and to the social social

Since the term of a patent is 17 years, the number of unexpired patents at a given date would normally be the number of patents issued during the preceding 17 years. The total number of patents

[.] Investigation of concentration of economic power: Hearings before the Temporary National Economic Committee, 76th Cong., pt. 3, Patents. (January 1939) exhibit 188, p. 1127. These hearings will be referred to as TNEC hearings, pt. 3, and some description of the study is given in section 6 of this report. In calculations leading to some of the data presented in 1938, it was estimated that the number of patents acquired by corporations from individuals after issuance was 4 percent of the total issued during the preceding 17 years and that of this amount one half percent was by the selected group of 187 large corporations, 3 percent by other United States corporations and one-half percent by foreign corporations.

issued in the 17 years from January 1, 1939, to December 31, 1955 (excluding reissues and design and plant patents), is 586,391. A few patents, which were issued prior to January 1, 1939, 59 in number, were extended under the law relating to extensions of patents of World War II veterans (64 Stat. 316, 66 Stat. 321); a few of these are still unexpired, but they are ignored in the total given. Also, a few patents may have been disclaimed or dedicated by their owners and hence technically would not be in force; no allowance has been made for these. The number of patents issued during the preceding 17 years is taken as the number of unexpired patents or patents in force on December 31, 1955. This total number of patents is divided as shown in table 1.

	TABLE 1.			

	prosonici si awing the total	Number of	Percent of
	<u>n la seguer al algeboa le</u> Gradules de colonia este Gradules de colonia este la lacción de l		54. 18 4. 33
	toja paroko selt da le Assai kirro		58. 51 40. 03 . 95
6. Alien Property Custodian Total		2, 961 586, 391	100.00
Number of Number of pagents	9000 II	<u> </u>	<u> </u>

The figures in lines 1 to 4 of this table are estimates but they have been carried to the last digit and the percentages to two decimal places in order to make the totals balance. The manner in which these estimates were obtained is described in section 7, which also gives the same data divided on an annual basis. The patents indicated in line 4 of the table as issued to individuals include a small proportion (about 4.5 percent of the total) in which the applicant had assigned in whole or in part to some other individual.

Line 5 of the table gives the number of patents issued to the United States Government resulting from inventions made by Government employees or from research paid for by the Government. The number given in this line does not include patents resulting from applications seized from the enemy during the war, nor a small number issued to the Reconstruction Finance Corporation which held some patents

and patent applications in connection with mortgages.

Line 6 of the table gives the number of patents issued directly to the Alien Property Custodian, or his successor the Attorney General, resulting from seized enemy and other alien-owned applications. During the period of the program of vesting enemy property, over 41,000 patents and 4,700 patent applications were vested. Most of the seized patents have since expired but on December 31, 1955, the Office of Alien Property still held 10,647 unexpired patents. Except when issued directly to the Custodian or his successor, these patents would appear in the tabulations in this report as attributed to the original foreign grantees.

² If the number of the first patent issued in 1939 (2,142,080) is subtracted from the number of the first patent, issued in 1958 (2,728,913) the result would be slightly higher than the total given here. This is due to the fact that some patent numbers were not used; an application might be in process of issue with the patent number assigned and then be withdrawn, for some reason and the patent not issued later with another number), in such event the assigned patent number could not be used for some other case. These withdrawals averaged 26 per year during the period involved here.

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4. CORPORATIONS WITH THE LARGEST NUMBERS OF PATENTS, 1939-55

Limitations of time and personnel did not permit the counting of the number of patents issued to all corporations having any patents and an attempt was made to obtain only the names of all corporations with over 100 unexpired patents, and the number of patents issued

to each of them.

The number of corporations to each of which more than 100 patents (including to a substantial extent the patents issued to wholly owned subsidiaries and merged companies) were issued during the 17 years 1939 to 1955 was found to be 394.3 The names of these companies arranged in the order of the number of patents issued to them, and also indicating the subsidiaries and merged companies which are included, are given in the appendix, list I. The present section will only give some totals and distributions.

Several tables are presented showing the distribution of the number of companies and of patents by ranges of patents. Table 2a is a short table showing the number of companies with more than 1,000 patents, the number of companies with 101 to 1,000 patents, and the total number of patents issued to the companies in these groups.

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90.00	133 JIBA	Range		Number of	Number of
				corporations	patents
1 Over 1 o	00 natonte (coo te	ក្រុម ដែល បាន បានការ៉ា ខេត់ពីរ វិកា ble 26) ក្រុម បានមួយសមានការក្រុម នៃវិកាន	J- (0 * 1, 3)	111 41 1011	104 110
2. 101 to 1,0	00 (see table 2c)	1. <u>5</u> 1. 525 p. 6. 1525 m. 255 33 113 114 56.	Firegra 1800	356	93, 831
3. 1 to 100_	tantan m	สองสองสราบไทยอย่างไทยที่ได้การที่เกรมสองสองรับรับปีการส			145, 184
4. d. o.To	tal to corporation	ns (estimated)	<u> </u>	400444	343, 125
ond a	tai patents DO 1800 DO	teriang far y "United beled	(fg (19 2)	- Day 7777	080, 391

"The names of these companies were not, of course, known in advance. The manner in which they were obtained and how the work was done was as follows; A list (on cards) of companies was made up on which it was fairly certain that all or practically all companies with more than 100 patents, would be included. This list was made by taking the name of each company which had 5 or more entries in the printed annual index of Patentees in either of the years 1953, 1954, or 1955, by taking the name of each company on a discontinued eard index of companies with their patents kept from the middle of 1938 to the middle of 1946 (and now otherwise uesless) which had more than 36 entries for this 8-year period; and by adding names not already included found on 4 lists of selected corporations which are described in footnote 5. The companies so listed were checked as indicated below for changes in names and mergers and additional names thus obtained. The result was a list of shout 2,800 names.

The number of patents issued in the years 1939 to 1955, inclusive, to each of these companies was counted from the cumulative index of patentees, which has been referred to in section 2: This index was counted from the cumulative index of patentees, which has been referred to in section 2: This index was started in 1931 and additions made from week to week as patents are issued. Each patent is indexed by the name of the inventor and also by the name of the patentee, if other than the inventor, on 3 by 5 slips which are arranged in alphabetical order in 15 fliing cabinets with a total of over 800 drawers. It is located in the public search room of the Patent Office and is in constant use by the public.

After the count was made, different names for the same company of patents had been issued as assignee during the period 1939-55. It cannot, of course, be asserted categorically that the list is absolutely complete, but it is believed to be practically complete and that the omissions, if any, would occur among the companies with the lower

but have nevertheless been included.

but have nevertheless been included.

Changes in names, mergers, and subsidiaries were ascertained as follows. The Assignment Branch of the Patent Office has kept a separate card index of changes in names and of mergers of companies, which have come to its attention through the recording of assignments of batches of patents and other papers. The name of each company on the first-list which was made up was checked in this index. When it was found that there had been a change of name, the patents issued in each name were counted from the cumulative index of patentiess and the results added together under the latest name. When it was found that a company on the list had been merged with others, the patents issued to each company so merged, and to the new company, were counted from the cumulative index and the results added together under the latest name. This consolidation of such names in large part would account for transfers of patents.

the latest name. This consolidation of such names in large part would account for transfers of patents; from one company to another.

There resulted from the count not only the names of the companies with over 100 patents, but also a large number of names of companies with fewer patents; (there were nearly 400 names with from 50 to 100 patents), since the initial list was made considerably larger than might actually be necessary. The names of practically all of the companies with over 100 patents, of most of the companies with 50 to 100 patents, and of many of the companies with less than 50 patents, were looked up in Moody's Industrial Index, 1955, to determine the assets of the company and also to determine if it was a subsidiary of or had been acquired by some other company. It is company was found to be a wholly owned subsidiary of or acquired by another company, the patents issued to it were added to the patents issued to the parent company. Also, the names of many companies known to be subsidiaries of others had been included in

Line 3 of table 2a represents the group of companies with 1 to 100 patents. These were not counted and hence the number of companies and patents is not known; however, the number of patents issued to this unknown number of companies can be estimated by subtraction from the estimate of the total number of patents issued to all corporations given in line 3 of table 1, and this estimate is given in line 3 of table 2a. No estimate of the number of companies with from 1 to 100 patents can be made from the present data in view of the enormous number of companies with a small number of patents, but it may be stated that the number is believed to be considerably over 20,000.4

Table 2b includes in lines 1 to 10 an expansion of line 1 of table 2a, arranged by thousands of patents. Thus, line 7 of this table shows that there were 2 companies with from 4,001 to 5,000 patents each, and that the total number of patents issued to these 2 companies was

8.940, etc.

Table 2c includes in lines 1 to 9 a division of line 2 of table 2a by hundreds of patents, and gives the number of companies, and the patents issued to them, in each hundred group.

${ m T}_{ m A}$	BLE	2b
LA	BLE	ZD

Range	Number of corpo- rations	Number of patents	Range	of corpo- rations	patents
1. 10,001 to 11,000 2. 9,001 to 10,000	1	10, 757	7. 4,001 to 5,000	2 2	8, 940 6, 897
3. 8,001 to 9,000	1 2 1	8, 539 15, 461 6, 338	9. 2,001 to 3,000 10. 1,001 to 2,000 11. 101 to 1,000	2 6 23 356	14, 305 32, 873 93, 831
6. 5,001 to 6,000				6.1-2 -229	

Table 2c

<u></u> y 3.8000 m				1475/8	1.00%
Range	Number of corpo- rations	Number of patents	Range	Number of corpo- rations	Number of patents
1. 901 to 1,000		3, 761 4, 237 8, 281 6, 328 4, 921	6. 401 to 500	20 36 71 190	8,897 12,589 17,570 27,247 145,184

The distribution is also shown graphically in figures 1 and 2 which depict the number of companies and the number of patents issued to them for intervals of 100 patents. In figure 2, the percent of total patents is also indicated. Each of these figures is carried only to the group 1,501-1,600, leaving 22 companies off the figures; if these were added on the same scale the figures would need to be extended about 7 times the present width and most of the added intervals would be

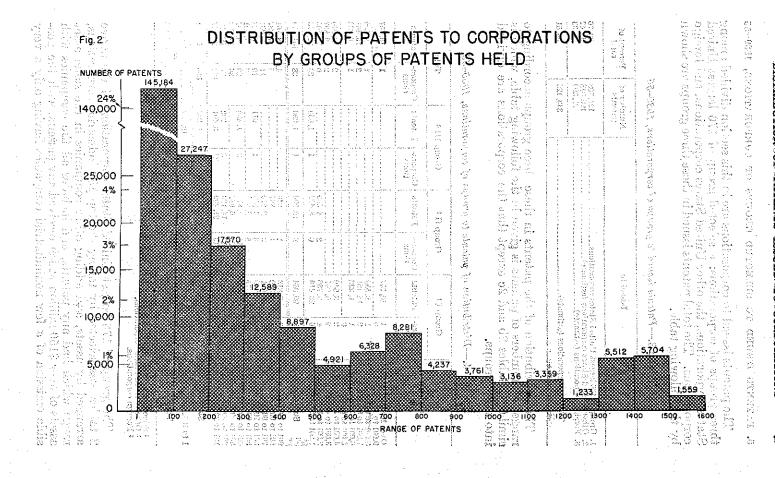
the original list. This association of patents issued to subsidiaries with the parent company was not of course complete, but practically all of the subsidiaries with substantial numbers of patents would have been included.

been included.

The 394 companies with more than 100 patents hence include, to the extent indicated, the patents issued to wholly owned subsidiaries and merged companies.

In the study made in 1938, all the patents issued to corporations during a period of 7½ years were counted and this count showed a total of 21,257 corporations receiving patents, the majority receiving an average of 1 or less patent per year and nearly half receiving only 1 patent during the 7½-year period involved. TNEC hearings, pt. 3, exhibit 191, p. 1129. Since only the patents issued during a 7½-year period were counted, the total number of corporations receiving patents for the full 17-year period would be much greater than 21,257, this number being augmented by the corporations receiving patents during the other 9½-years and none during the years counted.

NUMBER OF CORPORATIONS DISTRIBUTED BY RANGES IN NUMBERS OF PATENTS



5. PATENTS ISSUED TO SELECTED GROUPS OF CORPORATIONS, 1939-55

The patents issued to corporations are in this section divided among three groups of corporations: a selected group of 176 largest United States corporations, the other United States corporations, and foreign corporations. The total patents issued in these three groups are shown by the following table.

Table 3.—Patents issued to groups of corporations, 1939-55

	Issued to	Number of patents	Percent of total
1 2 3	Group of 176 largest United States corporations Other United States corporations (estimate) Foreign corporations (estimate)	121, 708 196, 018 25, 399	20. 76 33: 42 4. 33
	Total to corporations (estimate)	343, 125	58, 51

The distribution of the patents in these three groups according to ranges of numbers of patents is given in the following table, which is similar to tables 2b and 2c except that the corporations are divided into three groups.

Table 4.—Distribution of patents to groups of corporations, 1939-55.

	Grou	p I 1	Grou	p II ²	Group	эшз	То	tal
Range	Corpora- tions	Patents	Corpora- tions	Patents	Corpora- tions	Patents	Corpora- tions	Patents
Over 10,000 9,001 to 10,000	1	10, 757					1	10, 757
5,001 to 9,000 7,001 to 8,000 6,001 to 7,000 5,001 to 6,000	1 2 1 0	8, 539 15, 461 6, 338					1 2 1	8,539 15,461 6,338
4,001 to 5,000 3,001 to 4,000 2,001 to 3,000 1,001 to 2,000	2 2 4 16	8, 940 6, 897 9, 736 23, 416	2 6	4, 569 8, 427	i	1, 030	2 2 6 23	8, 940 6, 897 14, 308 32, 873
Subtotal	29	90, 084	8	12, 996	1	1,030	38	104, 110
901 to 1,000	3 4 8 8 3 4 6 16 11 11	2,813 3,350 6,011 1,899 2,275 2,582 5,602 2,665 2,437	1 1 3 6 5 11 20 57 149	948 887 2, 270 3, 818 2, 646 4, 877 6, 987 14, 123 21, 409	1 3 24	611 1, 438 782 3, 401	4 5 11 10 9 20 36 71 190	3, 761 4, 237 8, 28 6, 329 4, 92 8, 89 12, 589 17, 579 27, 24
Subtotal	72	29, 634	253	57, 965	- 31	6, 232	356	93, 83
1 to 100	75	1, 990		125, 057	2.2.2.1.10	18, 137		145, 18
Total	176	121, 708		196, 018	7 9	25, 399		343, 12

Selected group of 176 largest United States corporations.
 Other United States corporations.

The group of 176 largest United States corporations of the above 2 tables was selected by taking the top 150 industrial corporations, arranged by assets, and adding other companies in the same asset range which had any patents, and includes all the companies with assets of over \$150 million which received any patents, with the possible omission of a few nonindustrial companies having only a very

few patents. The names of these companies are included in the lists of companies in the appendix.

The patents issued to individual corporations were counted for the entire 17 years, and no division by years was made (except for a few companies as indicated in sec. 8). However, in view of the fact that the cumulative index used for the count is in 2 parts, the first part closing with 1951 and the second part beginning with 1952, it was possible to obtain readily a total for the 4 years 1952-55. The patents issued to the group of 176 large corporations were also separately counted for the single year 1955 from the printed annual Index of Patentees for this year. From these figures it was determined that the number of patents issued to the selected group of 176 large corporations during the 13 years 1939-51 was 21.08 percent of the total issued during these years; the number issued to this group during the 3 years 1952-54 was 20.68 percent of the total issued during these years; and the number issued in 1955 was 19:18 percent of the patents issued in this year. of the patents issued in this year.

6. DATA COMPILED IN 1938

Several references have been made to data compiled in 1938, and the subcommittee also referred to that study in its report of January 30, 1956 (S. Rept. No. 1464, 84th Cong., 2d sess., p. 2). In 1938 some data relating to patents issued to corporations were compiled for the Temporary National Economic Committee and printed in the

The group of largest corporations was obtained by utilizing several lists. The latest published list of corporations, arranged by size, at the time the work was done, was a list of the 500 largest industrial corporations published as a supplement to Fortune magazine for July 1955. The Fortune Directory of the 600 Largest United States Industrial Corporations, 12 pages; This list excludes utilities and financial transportation, trade, construction, and service companies. It was selected on the basis of net sales and not on the basis of assets; although the assets for each corporation listed (with a few exceptions) are given. The asset figures were obtained from Moody Industrial Index (1955) which gives the data as of the end of 1954. The company on this list with the lowest amount of assets has \$12 million. When arranged according to assets, the list would not be complete since the companies included were not selected on this basis. The Fortune list furthermore contains some significant omissions, a few large companies having been omitted because of absence of sales data. because of absence of sales data.

because of absence of sales data.

Another recent list of corporations arranged by size is a mimeographed list of the 200 largest corporations in the United States, excluding financial corporations, prepared by the Department of Commerce (U. S. Department of Commerce, 200 Largest Nonfinancial Corporations (1952), Business Structures Division, Office of Business Economics, 5 pages mimeographed). This list supplements the Fortune list by its inclusion of nomindustrial corporations; all the companies included have assets of over \$200 million. A less recent list of corporations is a publication of the Federal Trade Commission, dated June 1951, entitled "A List of L000 Large Manufacturing Companies, Their Subsidiaries and Affiliates, 1948." These corporations were selected on the basis of assets, the data being taken from Moody's Industrial Index (1949). The names of all the corporations included in the above-mentioned three lists, as well as the names on an industrial list published in 1958 (see footnote 6), which were not already on it, were added to the list of companies companies on mipled as mentioned in footnote 3, and the number of patents counted for each of them in the manner which has been described. The assets of the companies on the 1938 list and also of the top group of the companies on the Federal Trade Commission list were also brought up to date from Moody Industrial, Index (1955). In addition to this, the names of other companies having substantial numbers of patents which were obtained as described in footnote 3, supra, were checked in Moody's Index for their assets. The result was a collection of the names of all the larger industrial corporations and also additional names or companies in other groups. companies in other groups.

The companies used for the selected group of largest companies were selected by taking the top 150 industrial companies, and the companies in other categories, except financial, in the same asset range, which had any patents. The dividing point came at assets of \$150 million and hence the selected group of largest corporations fullules all the nonfinancial corporations with assets of over \$150 million, with some possible omissions of noninulatrial companies. The total number of companies in the selected group which re-

omissions of noninudstrial companies. The total number of companies in the selected group which received any patents was 176.

The composite list of the largest corporations which was obtained from the sources and in the mainler mentioned would possibly be incomplete with respect to transportation, utility, trade, construction and service companies, except in its upper range, but this deficiency would be of ittle consequence in considering the number of patents issued to the group.

In general, very few financial companies hold any patents; the few that do would hold them as trustee or in connection with a mortgage. Financial companies have hence been excluded from the group of large companies. Transportation companies also held very few patents. The Department of Commerce list of the 200 largest nonfinancial companies includes 44 transportation companies; of this number 29 took out no patents and the remaining 5 received only an average of 11 each. Utility companies, with only a few known exceptions, are not holders of large numbers of patents. The Department of Commerce list of 200 includes 47 electric and gas utility companies; of this number 38 had no patents and the remaining 9 averaged 11 patents each. Trade and service companies also hold very few patents.

hearings of that Committee, in Part 3: Patents, pages 845-848 and exhibits 183-191 on pages 1125-1129. Essentially the figures were obtained by counting all the patents issued to each corporation; on an annual basis, for the years 1931-37, and for the first half of the year 1938. The counting was done from the same cumulative index of patentees used here, as it then existed. The period chosen for the actual count of patents is explained by the fact that this cumulative index was started in 1931. For the years prior to 1931, in order to extend some of the data to include 17 years, samples, interpolations, and other methods of estimating were used. And that he series who were Table 5 is an arrangement of some of the prior data for the years 1936, 1937, and 1938, for the latter year the percentages obtained from the count for the first 6 months were applied to the patents issued during the entire year). The percentage of patents issued to the selected group of corporations varies little during these 3 years, and the other data also vary only a little in percentage from the percentages for the entire 3 years. aser ship in bywei strong out to

Table 5.—Patents issued to corporations, 1936-38

tes committed to Less 1938, and	b of 193	6 0010 J			11039 193		Percent
ymmuss is frequench mryb	Number	13 (10)	Number	Percent	Number	Percent	3 years
Group of 187 largest United States corporations. Other United States corporations. Foreign corporations.	14,451 14,903	16, 98 36, 33 4, 78	6, 415 13, 416 1, 824) '	6,546 13,089 2,063	17, 20 - 34, 39 - 5, 42	5,01
Total to corporations. Individuals U. S. Government.		58. 09 41. 83 . 08	21, 655 15, 994 33	57. 47 42. 44 . 09		57. 01 42. 83 .16	57, 53 42, 36 , 11
Total	39, 782		37, 682		38, 0 60	No vilase	000 000 T

The large corporations in that study were corporations with assets of over \$50 million. The basic list used was a list of industrial corporations with total assets of \$50 million and over, compiled by the Federal Trade Commission in 1938. This list contained 178 names, but only 151 were "industrial corporations" as the term is used in the recent list published by Fortune magazine, the others being trade and service companies. Hence the group of large corporations of the 1938 study included the top 151 industrial corporations plus the companies in other categories in the same asset range to which any patents were issued. The total number of corporations in the group considered, to which patents had been issued, was 157. Patents issued to subsidiaries of these companies were added to the patents

⁶ This list was published in Federal Licensing of Corporations, hearings before a subcommittee of the Committee on the Judiciary of the U. S. Senate, 75th Cong., pt. 4, March 1938, pp. 786-792.

7 See footnote 5, supra.

8 TNEC hearings, pt. 3, exhibits 183, 184, p. 1125.

The minimal form a market of the control of the con

issued to the parent companies in obtaining the data repeated in the first line of table 5.9

7. ANNUAL NUMBER AND PERCENTAGE OF PATENTS ISSUED TO CORPO-RATIONS, 1936-55

Some figures which were already on hand, relating to the number of patents issued annually to corporations, have been augmented and arranged for inclusion in this report. The annual tables presented are for the years 1936-55, inclusive, the 3 years 1936-38 having been added to make an even 20-year period; the figures in these tables are partly estimates.

Table 6 lists the total number of patents (excluding reissues and design and plant patents) issued annually in each of the 20 years covered, the number issued to United States corporations, the number issued to foreign corporations, the total issued to corporations, the number issued to individuals, and the number issued to the United States Government (excluding the Alien Property Custodian; patents issued to the Alien Property Custodian are included in the patents issued column but have not been separately listed).

Table 7 lists the annual percentages of the data given in columns

2 to 6 of table 6.

OThe data published in the TNEC hearings comprised nine tables and charts, exhibits 183 to 191, pp. 1125 to 1129, with a small amount of discussion during the oral hearing, pp. 845-848.

Exhibits 183 and 184 are charts showing the annual number and percentage of patents issued to the group of 187 large corporations (including subsidiaries) for the years 1921-38.

Exhibit 185 is a chart showing the number of patents issued per each 51 billion of their total assets, to the group of 157 large corporations, for each of the years 1921-37. It was criticized during the hearings (pp. 845, 846) as having no particular meaning since large companies with only 1 or 2 patents would be included. included

Exhibits 186 and 187 are charts showing the annual number and percentage of patents issued to all corporations and to foreign corporations, and also repeating the curves of exhibits 188 and 184; except for the noninclusion of data of this lattic type, figures 3 and 4 of the present study are similar to these exhibits.

Exhibit 188 is a diagram showing the number of patents issued from January 1, 1931, to June 30, 1938, which were acquired from Individuals after issuance by the three groups of corporations (the 157 large corporations, other United States corporations, and foreign corporations) during this period.

Exhibits 189 and 190 are tables which, taken together, are similar in form to table 4 of the present report. The data are not comparable, however, since in exhibits 189 and 190 the patents of subsidiaries were not combined with the parent corporations and the numbers are not only patents sized (which was estimated). estimate of the total number of patents owned by them, the number of patents issued (which was estimated) having been increased by a factor to obtain an estimate of the number of patents owned by the corporations

in the various groups.

Exhibit 191 is a detail table showing the number of corporations receiving only 1 to 8 patents during the

71% years of the count.

It does not appear that any explanatory written report was prepared in 1938. Some details regarding the study which have been referred to in the present report were obtained from a few internal memorandums. which have been found.

6.—Patents		

Year	Patents issued	Issued to United States corporations	Issued to foreign corporations	Total to corporations	Issued to individuals	Issued to U. S. Government
	(1)	(2)	(3)	(4)	(5)	(6)
1936	39, 782	21, 207	1,903	23, 110	16, 639	33
1937	37, 682	19, 831	1, 824	21, 655	15, 994	33
	38, 060	19, 635	_2, 063	21, 698	16, 303	59
1939	43, 072	21, 800	2, 640	24, 440	18, 582	50
1940	42, 235	22, 165	2, 406	24, 571	17, 624	40
1941	41, 109	22, 632	2, 112	24, 744	16, 322	43
1942	38, 449	22, 019	1, 286	23, 305	14, 534	62
1943	31, 053	18, 022	524	18, 546	11, 654	48
1944	28, 051	16, 769	645	17, 414	9,636	106
1945	25, 695	15, 665	580	16, 245	8,981	87
1946 1947 1948	21, 803 20, 139 23, 963	13, 486 11, 448 13, 124	585 669 628	14,071 12,117	7, 444 7, 784 9, 812	147 158 352
1949 1950	35, 131 43, 040	18, 536 21, 782	1, 127 1, 660	13, 752 19, 663 23, 442	14, 957 18, 960	488 622
1951	44, 326	22, 305	2, 163	24, 468	19, 192	659
1952	43, 616	22, 340	2, 035	24, 375	18, 538	695
1953	40, 468	21, 230	2, 294	23, 524	16, 284	658
1954	33, 809	18, 319	2, 301	20, 620	12, 531	658
1955	30, 432	16, 084	1,744	17, 828	11, 914	68

TABLE 7.—Annual percentage of patents issued to corporations

Year	To United States corpo- rations	To foreign corporations	Total to corporations	To indi- viduals	To U.S. Government
1936 1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1948 1949 1950 1950 1950 1952 1963 1963 1963 1963 1963 1963 1963 1963 1963 1963 1965	53. 31 52. 63 51. 59 50. 61 52. 48 55. 05 57. 27 58. 04 59. 78 60. 96 61. 85 56. 84 54. 77 52. 76 50. 61 50. 32 51. 22 52. 46 54. 18	(3) 4. 78 4. 84 5. 42 6. 13 5. 70 5. 14 3. 34 1. 69 2. 30 2. 26 2. 68 3. 32 2. 62 3. 31 3. 85 4. 88 4. 66 5. 67 6. 81 5. 73	(4) 58. 09 57. 47 67. 01 56. 74 68. 18 60. 19 60. 61 59. 73 62. 08 63. 22 64. 53 60. 16 57. 39 55. 97 54. 46 55. 20 55. 88 58. 13 60. 99 58. 58	41. 83 42. 44 42. 83 43. 14 41. 73 89. 70 27. 80 37. 53 34. 85 34. 95 40. 95 41. 97 44. 95 42. 57 44. 95 43. 30 42. 50 49. 24 37. 96 39. 15	(B) 0.08 0.09 16 122 10 11 16 15 38 34 67 77 1.47 1.38 1.49 1.59 1.69 2.27

The data presented in these tables were obtained in the following manner. The number and percentage of patents issued to corporations in the 3 years 1936, 1937, and 1938 are from the study made in 1938. See table 5. The number and percentage for 1955 were obtained by counting the patents issued to corporations for the entire year, in the Index of Patentees for 1955. For the intervening years, 1939–54, the number and percentage of patents issued to corporations were estimated by counting the patents (from the Official Gazette) issued to corporations for a full month at 6-month intervals. That

is, a sample of 2 months' patents, January and July, was taken each year and the estimates for each year calculated from these samples. The numbers of patents to the United States Government for each year were taken from an index of Government-owned patents (excluding the Alien Property Custodian; an annual tabulation of patents issued to the Alien Property Custodian is not separately listed in

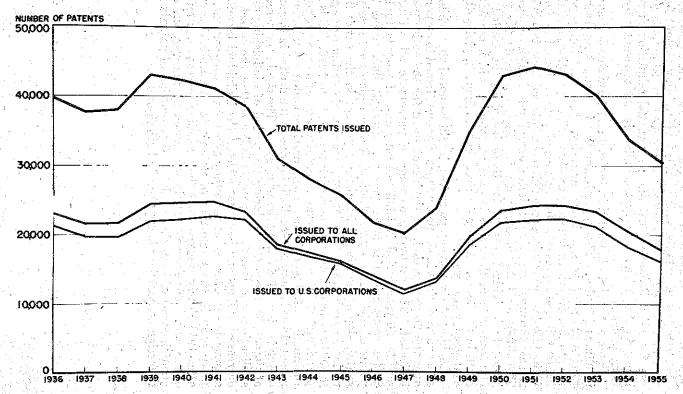
Some of the data tabulated in tables 6 and 7 are shown graphically in figures 3 and 4. The upper heavy line in figure 3 represents the total number of patents issued annually. The next line represents the number of patents issued annually to all corporations and the line below this one represents the number of patents issued annually to United States corporations; the difference between these two lines represents the number of patents issued annually to foreign corporations. The difference between the upper two lines represents the patents issued to individuals except for those issued to the United States Government and the Alien Property Custodian which are not indicated in the figure. Figure 4 corresponds to figure 3, giving the per-

centages for each year.

these tables).

Looking at the percentage curves, it will be noted that while there are some variations in the percentages of patents issued to corporations over the 20-year period, no significant trend for the entire period is The average percentage of patents to all corporations for the 20-year period is 58.37 percent, and of patents to United States corporations is 53.93 percent. Straight lines fitted to the points of each curve by the method of least squares are nearly horizontal, sloping downward by about 1 percent in the entire 20-year period in each case. The largest deviation above the average line, for either curve, is the rise occurring from 1941 to 1946. This rise in percentage of patents to corporations appears during the period when the number of patents issued to corporations and the total number of patents issued annually was declining due to the decline in the number of applications filed during the war years. The rise in the percentage of patents to corporations during the period of diminishing filing of applications and issuance of patents indicates that the causes of the decrease in filings and issuances affected the individual inventors to a somewhat greater extent than they affected the corporations. sharp drop in the proportion of patents to corporations occurring after 1946 clearly suggests that the preceding increase was an effect The decrease, obviously caused by the war, and subsequent increase of both the number and proportion of patents issued to foreign corporations is apparent in both figures.

FIG. 3. PATENTS ISSUED ANNUALLY TO CORPORATIONS



PERCENT OF PATENTS ISSUED TO CORPORATIONS Fig. 4. PERCENT OF PATENTS ISSUED 80 PERCENT ISSUED TO ALL CORPORATIONS 60 PERCENT ISSUED TO U.S. CORPORATIONS 20

1938 1939 1940 1941 1942 1943 1944 11945

8. PATENTS ISSUED EACH YEAR TO THE 15 CORPORATIONS RECEIVING THE LARGEST NUMBERS OF PATENTS

For the purpose of supplying additional material which might show any trends in the number of patents received by the larger corporations, a further study was made of the patents issued each year to a

small group of the largest patent-obtaining corporations.

Table 8 presents the number and proportion of patents issued each year to the 15 corporations which received the largest numbers of patents in that year, for the 20 years 1936 to 1955. The 15 corporations of one year are not entirely the same as the 15 in another year, for each year includes just the particular 15 corporations which received the largest number of patents in that year. From year to year there was a shift of two (8 times), one (8 times), or none (3 times) in the 15 companies which received the most patents. Of the corporations included, 9 were among the top 15 each year of the 20-year period. These nine are, in order of their total number of patents: (1) General Electric Co., (2) American Telephone & Telegraph Co., (3) Radio Corporation of America, (4) Westinghouse Electric Corp., (5) E. I. du Pont de Nemours & Co., (6) Esso Standard Oil Co., (7) General Motors Corp., (8) Eastman Kodak Co., (9) Bendix Aviation Corp. In addition to these 9, 5 companies appear among the top 15 from 11 to 15 times each. These companies are: American Cyanamid Co., United Shoe Machinery Corp., Shell Oil Co., Phillips Petroleum Co., and Westinghouse Air Brake Co. In addition, 6 companies appeared among the top 15 from 5 to 8 times each, and 8 companies appeared less than 5 times, including 3 which appear only once.10

Table 8.—Patents issued to 15 companies receiving the largest number of patents each year, 1936–55

							1.15
1 4	(1)	(2)	(3)	174	(1)	(2)	(3)
Year	Number	Percent of total patents	Percent of patents issued to corpora- tions	Year	Number	Percent of total patents	Percent of patents issued to corpora- tions
1988 1987 1988 1939 1940 1941 1942 1943 1944 1945 19	4, 554 4, 443 4, 347 5, 172 5, 018 5, 367 5, 584 4, 279 4, 134 3, 565	11. 45 11. 79 11. 42 12. 01 11. 88 13. 06 14. 52 13. 78 14. 74 13. 87	19. 71 20. 52 20. 03 21. 16 20. 42 21. 69 23. 96 23. 07 23. 74 21. 95	1946. 1947. 1948. 1949. 1950. 1951. 1952. 1953. 1954. 1965.	3, 646 3, 198 3, 386 4, 587 4, 968 4, 893 4, 518 4, 231 3, 716 3, 267	16. 72 15. 88 14. 13 13. 06 11. 04 11. 04 10. 36 10. 46 10. 99 10. 74	25. 91 26. 39 24. 62 23. 33 21. 19 20. 00 18. 54 17. 99 18. 02 18. 33

Column (1) of table 8 gives the total number of patents issued each year to the 15 companies receiving the largest numbers of patents in that year. Column (2) gives the percentage of the patents issued to the top 15 companies relative to the total number of patents issued in

^{10.} These companies were identified by taking the names of the top 20 companies listed in list 1 of the appendix, the names of the top 20 companies receiving the largest number of patents in 1955, and the top 20 companies receiving the largest number of patents in 1955, and the top 20 companies receiving the largest number of patents in 1936-38. The result was a list of 30 companies, and the patents issued to each of these companies were counted for each year, extending the count back to 1936 so as to make a 20-year period. Subsidiaries and merged companies were included in the same manner and to the same eatent as shown under the names of these companies listed in the appendix. From the tabulation of the number of patents issued to these 30 companies each year, the top 15 for each year were selected and this total is given in the table. The companies included in this tabulation are those which are numbered 1 to 23, and 26, 28, 29, 31, and 41 in the appendix.

the given year, and the next column gives the percentage of the patents issued to the top 15 companies relative to the number of patents.

issued to all corporations in the given year.

Referring to column (2), giving the percentage of total patents issued to the top 15 companies, the first 5 years, 1936 to 1940, show an average of 11.72 percent, with very little variation about this average. The last 5 years, 1951 to 1955, show an average of 10.71 percent, a decrease of about one-eleventh from the value of the percentage for the earlier years. However, there is a rise in the percentage to the top 15 corporations from 1940 to 1946 and thereafter a decline to the recent figures. This rise occurs during the same time as the rise in the percentage of patents to all corporations which has been discussed in the preceding section. In the preceding section it was pointed out that during this period the total number of patents issued each year was decreasing and smaller than normal and consequently the increase in the percentage of patents issued to corporations (occurring while the actual number of patents issued to them was decreasing) merely indicated that the causes of the decrease in filings and issuances of patents operated less strongly on corporations than on individuals. The present tabulation of the patents issued to the top 15 corporations indicates that the causes for the decrease in filings and issuances operated still less strongly on the larger corpora-Considering the war period and the years thereafter as abnormal and not included, the trend in the proportion of patents issued each year to the largest patent obtaining companies exhibits a decline, as has been noted. However, considering each year of the 20-year period, a straight line fitted to the data by statistical methods would also show a similar decreasing trend.

Referring to column (3), giving the percentage of patents issued to the top 15 companies relative to the number of patents issued to all companies, the first 5 years, 1936 to 1940, show an average of 20.38 percent. The last 5 years, 1951 to 1955, show an average of 18.61 percent. A similar decline would also be shown if all years were considered and the straight-line trend calculated. The rise in the percentage from 1940 to 1947 and the subsequent decline to the recent figures indicates that the causes of the drop in the number of patents issued during the war operated less strongly on the top corporations

than on the others, as has been stated.

9. PATENTS ISSUED TO CORPORATIONS IN 1955

The total number of patents issued to corporations in the year 1955 and the total number of corporations receiving patents in this year were counted from the annual Index of Patentees for 1955, a new arrangement of the entries making it convenient to do this for that year. There were 5,316 corporations receiving a total of 17,947 patents (this number includes 119 reissues) in 1955. The proportion of patents issued to corporations in this year, 58.58 percent, is almost the same as the average for the 17 years 1939–55, although the proportion to United States corporations is a little over 1 percent lower than the average to United States corporations for the 17-year period. The year 1955 shows a drop in the proportion of patents issued to the selected group of 176 large corporations, as pointed out in section 5.

Table 9 presents a listing of the number of corporations which received only 1 patent in 1955, the number which received 2 patents, and so on, for both United States and foreign corporations.

TABLE 9.—Patents issued to corporations, 1955

		States ations	Foreign corpora- Total to tions				
Number of patents	Number of corpo- rations	Number of pat- ents	Number of corpo- rations	Number of pat- ents	Number of corpo- rations	Number of pat- ents	
2	2, 698 702 315 164 100 75 53 32 27 16 4, 177 119 36 6 11 7 6 5 0 10	2,693 1,404 945 656 560 450 371 256 243 160 7,678 1,693 888 911 497 384 382 381 171 1,204 1,338	643 134 522 26 13 7 6 6 5 2 894 112 3 1 1	643 268 166 104 65 42 48 45 20 1,433 164 70 40	3,386 \$36 \$367,190 113 \$22 59 38 32 18 5,071 131 131 39 27 12 7 6 5 -2	3, 336 1, 672 1, 101 760 565 492 413 304 288 180 9, 111 1, 857 951 538 384 382 381 171 1, 404 1, 338	
Total	4, 405	16, 199	911	1, 748	5, 316	17, 947	

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esonical executive 2.16. Summod HT internation promotification of Corporations and Numbers of Patents Issued to Them ingbash yimand ...aD si**ry**k**1939≒55**eni8 (671) ... formatiy atandani

The following lists give the names of corporations and the number of patents issued to each during the 17 years, 1939-55. Following each name are given the names of other companies—subsidiaries, companies which have merged, and prior names of the same company-if any. which received patents which were added to the patents received by the main company to arrive at the total number given. It should be understood that the figure given for any individual company does not necessarily represent the actual number of patents owned by that company at the end of 1955, and that the figures have been compiled only for the purpose of statistical summaries.

There are three lists.

List I gives the names of 394 corporations which obtained more than 100 patents. This list is believed to be substantially complete. List II is a partial list of corporations which obtained from 75 to 100 patents. These names have been tabulated for the purpose of listing the names of the corporations in the selected group of large corporations referred to in section 5, which are not on the first list, and to preserve the counts for the other companies included. Since the effort was made to find the corporations with more than 100 patents, this latter group would be incompleted and anomalism had

List III continues the names in the selected group of large corporations by tabulating the names of those which received less than 75

patents.

The names of the corporations in the selected group of the largest corporations have been identified by the letter "A" placed after their name, in each of the three lists. Corporations not in this group and with assets of over \$100 million (and less than \$150 million) are identified by the letter "B" placed after their names in each of the lists; the three lists include all such names which were found. Corporations with no patents are not included in the listings.

One or two of the names included may not necessarily be Chemients Cong. (122); Babelian Coqu. (12); Oxweld Repropression Co. (27); Manianal Cobbot Co., Inc. (21); Haynes Stablic

1. CORPORATIONS WITH OVER 100 PATENTS (10)
C. General Electric Co. (A).
Includes patents issued to Hotpoint (131); General
City I Electric X-Ray Corp. (94) of smeath is heat reaching heat and the
2. American Telephone & Telegraph Co. (A) 8, 539 Includes patents issued to Bell Telephone Laboratories, Inc.
(5,600); Western Electric Co., Anc. (2,087); Teletype Corp.
(451); Electrical Research Products, Inc. (26); Nassau Smelt-
-8450 μ , we ling & Refining Co. (20). In a manufact (regularly to a Fit) two legal polynomials
3. Radio Corporation of America (A) No. 11 to 12
And the first of the first of the first property of the first of the f

I. CORPORATIONS WITH OVER 100 PATENTS—continued	
A Wastinghauss Electric Com (A)	7, 567
4. Westinghouse Electric Corp. (A) Formerly Westinghouse Electric & Manufacturing Co. Includes patents to B. F. Sturtevant Co. (159).	1, 901
5. Du Pont de Nemours, E. I., & Co. (A) Includes patents to Kinetic Chemicals, Inc. (36); Du Pont Film Manufacturing Corp. (33).	6, 338
6. Esso Standard Oil Co. (A) Formerly Standard Oil Company of New Jersey. Includes	4, 899
patents to Esso Research & Engineering Co., formerly Stand- ard Oil Development Co. (4,626); Gilbert & Barker Manufac-	usas.)
turing Co. (175); Standard Catalytic Co., formerly Standard I. G. Co. (98).	
7. General Motors Corp. (A) 8. Eastman Kodak Co. (A) Includes Distillation Products, Inc. (121); Tennessee East-	4, 041 3, 784
Includes Distillation Products, Inc. (121); Tennessee East-	e e centralità de l'El L'Alterata de l'El
9. Bendix Aviation Corp. (A).	3 113
Includes Bendix Products Corp. (164); Hydraulic Brake	e de la la la composición de la composición del composición de la
Co. (145) Eclipse Aviation Corp. (84) Bendix Radio Co.	11.747 11. 2. martin 12.
(33); Bendix-Kliesrath Hydraulic Brake (14); Bendix Brake Co. (5); Bendix Stromberg Carburetor Co. (3); Zenith Carbu-	
Co. (5); Bendix Stromberg Carburetor Co. (3); Zenith Carbu-	Maria de la Constantia del Constantia de la Constantia de la Constantia de la Constantia de
retor Co. (3); Pioneer Instrument Co. (1); Bendix Ayiation,	部6. 1964年
retor Co. (3); Pioneer Instrument Co. (1); Bendix Aviation, Ltd. (California) (1); Eclipse Machine Co. (1).	2 872
10. American Cyanamid Co. (A) Includes Chemical Construction Corp. (75); Lederle Laboratories, Inc. (37).	21 01 4
Laboratories, Inc. (37).	oliJ -
11. United Shoe Machinery Corp. (B) 11. United Shoe Machinery Corp	1:2, 461
Includes B. B. Chemical Co. (69); 11 11 11 11 11 11 11 11 11 11 11 11 11	î radît
12. Phillips Petroleum Co. (A) 13. Shell Oil Co. (A)	2, 424
13. Shell Oil Co. (A)	2, 374
Includes Shell Development Co. (2,373).	3 1003255
14. The Westinghouse Air Brake Co. (B)	:::Z, 1U8
Formerly the Union, Switch & Signal Co.	2, 066
15. Sperry Rand Corp. (A) Tradiction the Stranger Corp. (722): Sperry Corporate Co.	-2,000
Includes the Sperry Corp. (722); Sperry Gyroscope Co., Inc. (433); Remington Rand, Inc. (435); Vickers, Inc. (338);	1.31
Ford Instrument Co., Inc. (89); Eckert-Mauchly Computer	ai aidi
concern Corp. (17) were find an add at marger add annual con Till	5x 1 7
Corp. (17) 16. General Aniline & Film Corp. (A) Includes General Aniline Works, Inc. (147); Agra Ansco	1, 919
Includes General Aniline Works, Inc. (147); Agfa Ansco	1 8000
Corp. (86).	0.89(2,998)
17; The Dow Chemical Co. (A) Larly of new isomerses rule in someway	0.1,884
18. Minneapolis-Honeywell Regulator Co. (B)	1, 813
Includes the Brown Instrument Co. (324).	A CHAR
19. Monsanto, Chemical Co. (A)	1, 747
18. Minneapolis-Honeywell Regulator Co. (B) Includes the Brown Instrument Co. (324). 19. Monsanto Chemical Co. (A) 20. Socony Mobil Oil Co., Inc. (A) Formerly Socony-Vacuum Oil Co., Inc. Includes Magnolia	22,094
Petroleum Co. (1) Products Co. 21 Universal Oil Products Co.	L 665
22. Union Carbide and Carbon Corp. (A) 765 335 766 337 765 65 1512	1.645
21. Universal Oil Products Co 22. Union Carbide and Carbon Corp. (A) (1.33) 118 24 25 25 25 25 25 25 25 25 25 25 25 25 25	aiiO
Chemicals Corp. (352); Bakelite Corp. (93); Oxweld Acety-	ricertiou
Co. (37): Prest-O-Life Co., Inc. (13) $\alpha_1 = \alpha_1 + \alpha_2 = \alpha_3$	
23. B. F. Goodrich Co. (A)	1, 559
24. United States Rubber Co. (A)	±1,409
23. B. F. Goodrich Co. (A) 24. United States Rubber Co. (A) Includes Mishawaka Rubber & Woolen Mfg. Co. (59).	1, 419
25. Hartiord National Bank & Trust Co. 1441 1322 1222 1222 1222 1222 1222 1222	1,419
(Held for N. V. Philips's Glocilampenfabrickens (Holland)	375 J.D.
26. International Business Machines Corpo (A) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	1, 410
27 International Standard Electric Corp of the season in the season of the season in the season of the season in the season of t	1, 406
27. International Standard Electric Corp (1972) 22 23 24 25 27 27 27 27 27 27 27	1, 393
Includes Standolind Oil & Gas Con (277); American Oil Col,	
formerly Pan American Refining Corp. (55)	

incorporations with toyer 2100 "patents -- continued

∂29. 30.	International Harvester Co. (A) United States Steel Corpo (A) Department of the States of the Corpo (A) Department	, 391 , 374
	Includes American Wire & Steel Company of New Jersey (365);	10 <u>.</u> 50
\$2 K	Carnegie-Illinois Steel Corp. (293); National Tube Co. (208); Oil Well Supply Co. (50); Tennessee Coal, Iron & Railroad Co. (32); Consolidated Western Steel Corp. (6); American Bridge Co. (4); United States Steel Products Co. (4); Colum-	. 5 5 5 5 -0 70
X_{α}, X_{β}	Oil Well Supply Co. (50); Tennessee Coal, Iron & Railroad	198
275.74	Co. (32); Consolidated Western Steel Corp. (6) American	-84
5.31.7	Bridge Co. (4): United States Steel Products Co. (4): Colum-	2.4
Car	bia Steel Co. (3); Gerrard Steel Strapping Co. (2); Bradley Transportation Co. (1); Geneva Steel Co. (1); United States	.36
10.00	Transportation Co. (1): Geneva Steel Co. (1): United States	
790p.	Steel Supply Co. (1); Universal Exploration Co. (4). Celanese Corporation of America (A) Deere & Co. (A) Includes Deere Manufacturing Co. (507); Dain Manufacturing Co. (17)	. 5 7 1 3
51, 111	Colored Compartion of America (A)	1.354
31.	Ceranese Corporation of America (A)	l. 233
32.	Deere & Co. (A) = 1 - 2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	ι, ⊿οο
	Includes Deere Manufacturing Co. (507); Dain Manufac-	65.15
510	turing Company of howa (20); John Deere Fractor Co. (11).	
33.	The Texas Co. (A)	1, 151
7.13	Includes Texaco Development Corp. (133).	-5-0
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	Formerly Fairchild Aviation Corp., includes Fairchild Aerial Gamera Corp. (4). Ternstedt: Manufacturing Co. United States Slicing Machine Co., Inc. Bosch, Robert, Gesellschaft mit beschrankter Haftung (Germany). The Bristol Aeroplane Co., Ltd. (Great Britain). Diamond Alkali Co. (B). The Miller Co. E. W. Bliss Co. The British Petroleum Co. Ltd. (Great Britain). Formerly Anglo-Iranian Oil Co. Ltd. Burndy Engineering Co., Inc. The Eagle Picher Co. Formerly Eagle Picher Lead Co.; includes Ohio Rubber Co. (36). Eastman Oil Well Survey Co. Eversharp, Inc. Formerly Miehle Printing Press & Manufacturing Co.; includes the Wahl Co. (3). Hooker Electrochemical Co. Standard Brands, Inc. (A) The Stanley Works. Textile Machine Works. Textile Machine Works. Textile Machine Works. Textile Machine Grop. The Fellows Gear Shaper Co. Hamilton Watch Co. The Arrow-Hart & Hegeman Electric Co. Bryant Chucking Grinder Co. Dietaphone Corp. Emseo Manufacturing Co. Formerly Enseso Derrick & Equipment Co. Pye, Ltd. (Great Britain) Surface Combustion Corp. Whiting Corp. Kenffel & Esser Co. The Lionel Corp. Marchant Calculators, Inc. Formerly Marchant Calculating Machine Co. National Standard Co. Perfex Corp. Pitney-Bowes, Inc. Formerly Pitney-Bowes Postage Meter Co. Vickers-Armstrongs, Ltd. (Great Britain) Anaconda Wire & Cable Co. Colit's Patent Fire Arms Manufacturing Co. Revere Copper & Brass, Inc. St. Regis Paper Co. (A) Vacuum Process Corp. Ferballey Co. (60). Revere Copper & Brass, Inc. St. Regis Paper Co. (A) Vacuum Process Corp. Formerly Foods Corp. Continental Motors Corp. Genral Foods Corp (A) Okonite Company. Includes the Okonite-Callender Cable Co. (53). Sears, Rochuck & Co. (A). Formerly Farbenfabriken Bayer.

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Lorilland P. Co. (A)	ž
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III, SOME CORPORATIONS WITH LESS THAN 75 PATENTS (ARRANGED : ALPHABETICALLY)—continued.

Sunray I	Mid-Continent Oil Co. (A) 38 Includes Mid-Continent Petroleum Corp. (38). Oil Co., The (California) (B) 3
Superior	Oil Co., The (California) (B)
Time, In	(c. (B)
Twentiet	th Century-Fox Film Corp. (B)
Union P	ic. (B) 57 th Century-Fox Film Corp. (B) 53 acific RR. Co. (A) 1 Pruit Co. (A) 10 Jas Corp. (A) 2 Merchants & Manufacturers, Inc. (A) 40 Formerly Cohn-Hall-Marx Co. (Hiram) & Sons Inc. (B) 10
United I	fruit Co. (A)
United C	las Corn (A)
United N	Marchants & Manufacturers Inc (A)
Omitou I	Formerly Cohn-Hall-Mary Co
Walker ((Hiram) & Sons, Inc. (B)
Warren	Petroleum Co. (B)
Weverhe	egiser Timber Co (A)
Wheeling	r Steel Corn (A)
Wilson A	CONTROL MAGATTATATATATATATATATATATATATATATATATAT
Wisconsi	in Electric Power Co. (A)
Woolwor	th F W Co (A)
Youngst	Hiram) & Sons Inc. (B)
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es :	Kroger Co. (4) h charges Kroger Crocery & Ball or Co. 150 Libby, Mr. Shiby (B)
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ĝ.	Macy, R. E. & Co., Inc. (A) Marchall Flow & Co. (B)
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al W	Alexant Front & Co. (B) Modesson & Robbins, Inc. (A) Modesson & Robbins, Inc. (A) Montgenery Ward & Co. (A) National Superior (bo. (A) National Cuprent (bo. (A) National Cuprent (b. (B)) Now Fork Carbar D. R. (b. (A) Othic Oil Co. (A) Othic Oil Co. (A)
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0.0	757 A. C. and C.
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-0-40 -0-40	Femily, J. Co. (A). Pennsylvania NR. Co., The (A). Pateriann Hear N. Payer Co., Inc. (B).
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(7)	Photos Dodge Cong (A)
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0.1	Pholps Dodge Cocy. (A) Indude: Pholps Dodge Copper Product Com. (22). Philip Morth (A)
äc.	Pillsburg, Millis, (no. (15) Pillsburg, Millis, (no. (15) Pillsburg, Start ('o. '15) Pillsburg, Start ('o. '15) Pillsburg, Start ('o. '15) Pillsburg, Start ('o. '15) Pullsburg, Start ('o. '15) Pullsburg, Start ('o. '15) Pullsburg, Start ('o. '15) Pullsburg, Start ('o. '15)
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	Publicker Industries, Inc. (B) Commercial Akchel Co.
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430	Van nei normanitt
1	Waynolds, R. J. Tolyagen Co. (A)
E80	Hichirold Oil Copp. (A)
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ge	(A - m) reach a most
111	Reservation for the Season Lead (A)
	Scart Paper Ca. (A). Scarcion Joseph W. & Sons, Inc. (A). Schiller, Ing., Browley Co. (B).
Át	Wally (M. Cally)
- 81	Shally Oil Co. (A). Southern Cylling Kou Co. (A).
- 28	Mesons, A. E., C. (in, bed. (A) Data (in) a particular