

PATENT ACTIVITY REPORT

ID #: (1-5)  
 INSTITUTION: (80-99) *U. of Wisconsin*  
 DHHS IPA NUMBER: (160-164)  
 DATE DHHS IPA SIGNED: (165-170) *12/1/68*  
 REPORT PREPARER: *WARF*  
 PERIOD COVERED: *10/1/80 TO 9/30/81*  
 INSTITUTION TYPE: *University*

INVENTION: (6-79) *Convergent Synthesis of Acylated Disaccharide Precursors of Enterobacterial Lipid A*  
 INVENTOR(S): (100-147) *Anderson, L. Hasked, M.*  
 U.S. PATENT APPLICATION FILING DATE: (148-153) *3/30/81*  
 U.S. PATENT APPLICATION SERIAL NUMBER: (171-178) *248692*  
 U.S. PATENT NUMBER: (224-232)  
 U.S. PATENT DATE OF ISSUE: (233-238)  
 DHHS INVENTION REPORT DATE: (154-159) *3/19/81*  
 DHHS GRANT/AWARD NUMBER(S): (179-223) *AM 10588*  
 (FOR DHHS OFFICE USE ONLY)  
 DHHS NUMBER: (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREE- -MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMER- -CIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYAL. BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (IN \$000) (66-70)	COM- -MENT (71)
<i>U.S. Government</i>	<i>5/1/81</i>		<i>A</i>							<i>E</i>

\* 'GROSS SALES' SHOULD BE INTERPRETED AS THE WHOLESALE REVENUES OF THE LICENSEE.  
 1 LIST ADDRESSES AND TELEPHONE NUMBERS ON THE BACK OF THIS PAGE.  
 2 COMMENTS CODES (SEE BELOW):  
 A = DROPPED  
 B = FOREIGN PATENT(S) APPLIED FOR  
 C = FOREIGN PATENT(S) GRANTED  
 D = NEGOTIATING WITH POTENTIAL LICENSEE  
 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE  
 STATUS OF DEVELOPMENT AND CURRENT USE (INCLUDING FOREIGN PATENTS)  
 E = US PATENT APPLICATION PENDING  
 F = US PATENT APPLICATION REJECTED  
 G = UNDER EVALUATION/TESTING  
 H = US PATENT APPLICATION WILL NOT BE FILED  
 I = LICENSEE AWAITING FDA APPROVAL  
 J = LICENSEE TO GOVERNMENT  
 K = LICENSEE TERMINATED  
 L = UNIVERSITY RIGHTS RELINQUISHED

PATENT ACTIVITY REPORT

ID #: 01568  
(1-5)

INSTITUTION: U OF WISCONSIN  
(80-99)

DHHS IPA NUMBER: (160-164)

DATE DHHS IPA SIGNED: 12/01/68  
(165-170)

REPORT PREPARER: WAF

PERIOD COVERED: 10/1/80 TO 9/30/81

INSTITUTION TYPE: UNIVERSITY

INVENTION: METHOD FOR REDUCING FROST DAMAGE OF PLANTS  
(6-79)

INVENTOR(S):  
(100-147)

U.S. PATENT APPLICATION FILING DATE: 08/02/76  
(148-153)

DHHS INVENTION REPORT DATE: 09/02/76  
(154-159)

ARNY, D.  
LINDOW, S.

U.S. PATENT APPLICATION SERIAL NUMBER: 710414  
(171-178)

DHHS GRANT/AWARD NUMBER(S): GM0721501  
(179-223)

U.S. PATENT NUMBER: 4045910  
(224-232)

(FOR DHHS OFFICE USE ONLY)

U.S. PATENT DATE OF ISSUE: 09/06/77  
(233-238)

DHHS NUMBER: G-226-76  
(239-250)

LICENSEE(S) <sup>1</sup> (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE <sup>3</sup> (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES* BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES* BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSER CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN \$000) (66-70)	COM-MENT <sup>2</sup> (71)
MICROLIFE TECHNIKS IN U.S. Government	01/01/80 9/8/76		B A	0000		0000	00000	0000	00000	G C-Consider

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C = FOREIGN PATENT(S) GRANTED; H = UNDER EVALUATION/TESTING; K = LICENSE TERMINATED

D = NEGOTIATING WITH POTENTIAL LICENSEE; L = US PATENT APPLICATION WILL NOT BE FILED; L = UNIVERSITY RIGHTS RELINQUISHED

3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

Michael Leschner, 1833 57th St, Sarasota, Florida 33578 - (813) 355-8561

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PATENT ACTIVITY REPORT

ID #: (1-5)	01621
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: METHOD FOR REDUCING TEMPERATURE AT WHICH PLANTS FREEZE (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 07/03/78 (148-153)	DHHS INVENTION REPORT DATE: 08/14/78 (154-159)
ARNY, D. LINDOW, S.	U.S. PATENT APPLICATION SERIAL NUMBER: 921800 (171-178)	DHHS GRANT/AWARD NUMBER(S): GM0721501 (179-223)
	U.S. PATENT NUMBER: 4161084 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 7/17/79 (233-238)	DHHS NUMBER: G-247-78 (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES* BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES* BY LICENSEE TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTY BY LICENSEE TO DATE (IN \$000) (66-70)	COM- MENT (71)
MicroLife Technica	1/1/80		B	0000		0000	00000	0000	00000	C
U.S. Government	9/11/78		A							

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 B = FOREIGN PATENT(S) APPLIED FOR F = US PATENT APPLICATION REJECTED LICENSEE J = LICENSEE TO GOVERNMENT  
 C = FOREIGN PATENT(S) GRANTED G = UNDER EVALUATION/TESTING K = LICENSE TERMINATED  
 D = NEGOTIATING WITH POTENTIAL LICENSEE H = US PATENT APPLICATION WILL NOT BE FILED L = UNIVERSITY RIGHTS RELINQUISHED  
 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

PATENT ACTIVITY REPORT

ID #: 01574  
 (1-5)  
 INSTITUTION: U OF WISCONSIN  
 (80-99)  
 DHHS IPA NUMBER:  
 (160-164)  
 DATE DHHS IPA SIGNED: 12/01/69  
 (165-170)  
 REPORT PREPARER: WARF  
 PERIOD COVERED: 10/1/80 TO 9/30/81  
 INSTITUTION TYPE: UNIVERSITY

INVENTION: METHOD FOR PREPARING A REAGENT FOR P.L.T.  
 (6-79)  
 INVENTOR(S):  
 (100-147)  
 U.S. PATENT APPLICATION: 7/1/77  
 FILING DATE: 06/17/76  
 (148-153)  
 DHHS INVENTION REPORT DATE: 06/21/77  
 (154-159)  
 BACH, M.  
 BACH, F.  
 U.S. PATENT APPLICATION: 8/1/76  
 SERIAL NUMBER: 627029  
 (171-178)  
 DHHS GRANT/AWARD NUMBER(S): NIH108439  
 PHSHL06314  
 (179-223) NIH100567  
 NIHCA 16836  
 U.S. PATENT NUMBER: 4124701  
 (224-232)  
 U.S. PATENT DATE OF ISSUE: 11/07/78  
 (233-238)  
 (FOR DHHS OFFICE USE ONLY)  
 DHHS NUMBER: G-123-77  
 (239-250)

LICENSEE(S) <sup>1</sup> (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE <sup>*</sup> CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE <sup>*</sup> TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE <sup>*</sup> CUR. YR. (IN \$000) (62-65)	TOTAL GROSS ROYALTY BY LICENSEE <sup>*</sup> TO DATE (IN \$000) (66-70)	COM- MENT (71)
BIO-TEST SERUM INST. U.S. Government	4/1/78 6/1/77		B A	0000		0000	00000	0000	00000	C K A - Czech Denmark France S. Korea H. Korea Hungary Norway Poland Spain Sweden Switzerland B - Japan C - Canada Lat. America Australia Belgium

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 3 = DROPPED  
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 5 = FOREIGN PATENT(S) GRANTED  
 6 = NEGOTIATING WITH POTENTIAL LICENSEE  
 7 = US PATENT APPLICATION PENDING  
 8 = US PATENT APPLICATION REJECTED LICENSEE  
 9 = UNDER EVALUATION/TESTING  
 10 = US PATENT APPLICATION WILL NOT BE FILED  
 11 = LICENSEE AWAITING FDA APPROVAL  
 12 = LICENSEE TO GOVERNMENT  
 13 = LICENSEE TERMINATED  
 14 = UNIVERSITY RIGHTS RELINQUISHED  
 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

Beate-Karoline-Schmidt GmbH, Hauptstraße 4 & 5 Frankfurt am Main D3, D. Germany

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PATENT ACTIVITY REPORT

IO #: (1-5)	01589
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: CYTOKININ ANTAGONIST TO PLANT GROWTH HORMONE (8-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 08/24/78 (148-153)	DHHS INVENTION REPORT DATE: 11/09/71 (154-159)
BOCK, R. HECT, S. ET AL	U.S. PATENT APPLICATION SERIAL NUMBER: 154271 (171-178)	DHHS GRANT/AWARD NUMBER(S): GN12395 (179-223)
	U.S. PATENT NUMBER: (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: (233-238)	DHHS NUMBER: G-146-72 (239-250)

LICENSEE(S) <sup>1</sup> (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE <sup>3</sup> (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES* BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES* BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSER CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN \$000) (66-70)	COM- MENT <sup>2</sup> (71)
BURROUGHS-WELLCOME	4/1/76		A	0000		0000	00000	0000	00000	K
DOW CHEMICAL	8/1/75		A	0000		0000	00000	0000	00000	K
U.S. Government	11/8/72		A							E

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 J = US PATENT APPLICATION REJECTED LICENSEE  
 K = US PATENT APPLICATION WILL NOT BE FILED  
 L = UNIVERSITY RIGHTS RELINQUISHED  
 M = LICENSING Awaiting FDA APPROVAL  
 O = LICENSING TO GOVERNMENT  
 P = LICENSING TERMINATED  
<sup>3</sup> LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

Warrington, Williams Co., 3030 Commonwealth Rd., Research Triangle Park, NC 27709 - (919) 541-9090  
Act - Chemical, Medical, Biological 48646

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PATENT ACTIVITY REPORT

ID #: (1-5)	01545
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: ASSAY FOR AMINO GLYCOSIDES (6-79)		
INVENTOR(S): (100-147)	U. S. PATENT APPLICATION: FILING DATE: 08/25/80 (148-153)	DHHS INVENTION REPORT DATE: 11/06/80 (154-159)
DAVIES, T. HAFORD, S.	U. S. PATENT APPLICATION SERIAL NUMBER: 181270 (171-178)	DHHS GRANT/AWARD NUMBER(S): PCM7913845-NSF Grant (179-223) AMH110076
	U. S. PATENT NUMBER: (224-232)	<FOR DHHS OFFICE USE ONLY>
	U. S. PATENT DATE OF ISSUE: (233-238)	DHHS NUMBER: (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREE- -MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALE BY LICENSEE* CURRENT YEAR (IN \$000) (53-56)	GROSS SALE BY LICENSEE* TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (IN \$000) (66-70)	COM- MENT (71)
U.S. Government	1/30/81		A	0000		0000	00000	0000	00000	E

A - Canada  
Ireland  
Australia  
Denmark  
France  
Germany  
Great Britain  
Japan  
Switzerland

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PATENT ACTIVITY REPORT

ID #: 01602  
(1-5)

INSTITUTION: U OF WISCONSIN  
(80-99)

DHHS IPA NUMBER: (160-164)

DATE DHHS IPA SIGNED: 12/01/68  
(165-170)

REPORT PREPARER: WARF

PERIOD COVERED: 10/1/80 TO 9/30/81

INSTITUTION TYPE: UNIVERSITY

INVENTION: 1,24,25-TRIHYDROXYCHOLECALCIFEROL  
(6-79)

INVENTOR(S):<sup>1</sup>  
(100-147)

DELUCA, H.

U.S. PATENT APPLICATION FILING DATE: 07/16/73  
(148-153)

U.S. PATENT APPLICATION SERIAL NUMBER: 379621  
(171-173)

U.S. PATENT NUMBER: 3847955  
(224-232)

U.S. PATENT DATE OF ISSUE: 11/12/74  
(233-238)

DHHS INVENTION REPORT DATE: 07/17/73  
(154-159)

DHHS GRANT/AWARD NUMBER(S): AM14881  
(179-223) AM15512

(FOR DHHS OFFICE USE ONLY)

DHHS NUMBER: G-115-73  
(239-250)

LICENSEE(S) <sup>1</sup> (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-48)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES* BY LICENSEE CURRENT YEAR (IN \$000) (53-58)	GROSS SALES* BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	CROSS ROYALTY BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (IN \$000) (66-70)	COM- MENT (71)
ROUSSEL UCLAF	11/1/71		A	0000		0000	00000	0000	00000	C
TEVA LTD.	8/1/79		A	0000		0000	00000	0000	00000	E
UPJOHN CO.				0000		0000	00000	0000	00000	
HOFFMAN LAROCHE				0000		0000	00000	0000	00000	
CHUGAI				0000		0000	00000	0000	00000	E
LEO				0000		0000	00000	0000	00000	E
DIAMOND-SHAROCK				0000		0000	00000	0000	00000	
U.S. Government	7/25/73		A							C-France Germany UK-Britain

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PATENT ACTIVITY REPORT

ID #: (1-5)	01597
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: 24,25-DIHYDROXYCHOLECALCIFEROL (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 05/05/72 (148-153)	DHHS INVENTION REPORT DATE: 07/06/72 (154-159)
DELUCA, H.	U.S. PATENT APPLICATION SERIAL NUMBER: 250661 (171-173)	DHHS GRANT/AWARD NUMBER(S): AM14881 (179-223) AM15512
	U.S. PATENT NUMBER: 3715374 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 02/06/73 (233-233)	DHHS NUMBER: G-73-71 (239-250)

LICENSEE(S) (8-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES* BY LICENSEE PER YEAR (IN \$000) (53-56)	GROSS SALES* BY LICENSEE TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (IN \$000) (66-70)	COM- MENT (71)
ROUSSEL UCLAF	11/1/71		A	0000		0000	00000	0000	00000	A
TEVA LTD.	8/1/79		A	0000		0000	00000	0000	00000	A
UPJOHN CO.				0000		0000	00000	0000	00000	
HOFFMAN-LAROCHE				0000		0000	00000	0000	00000	
EHUGAI				0000		0000	00000	0000	00000	A
LEO				0000		0000	00000	0000	00000	A
DIAMOND SHAMROCK				0000		0000	00000	0000	00000	
U.S. Government	9/8/72		A							
Hoffmann-La Roche (Switz)	9/1/77		A							

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PATENT ACTIVITY REPORT

ID #: (1-5)	01590
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: 25,26-DIHYDROXYCHOLECALCIFEROL (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 10/22/71 (148-153)	DHHS INVENTION REPORT DATE: 11/16/71 (154-159)
DELUCA, H.	U.S. PATENT APPLICATION SERIAL NUMBER: 191842 (171-178)	DHHS GRANT/AWARD NUMBER(S): AM0580008 (179-223)
	U.S. PATENT NUMBER: 3739001 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 06/12/73 (233-238)	DHHS NUMBER: G-74-71 (239-250)

LICENSEE(S) <sup>1</sup> (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE <sup>2</sup> CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE <sup>2</sup> TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSER CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN \$000) (66-70)	COM- MENT (71) <sup>2</sup>
ROUSSEL UCLAF	11/1/71		A	0000		0000	00000	0000	00000	e
TEVA LTD.	8/1/79		A	0000		0000	00000	0000	00000	e
UPJOHN CO.				0000		0000	00000	0000	00000	
HOFFMANN-LAROCHE				0000		0000	00000	0000	00000	
CHUGAT				0000		0000	00000	0000	00000	e
LEO				0000		0000	00000	0000	00000	e
DIAMOND-SHARROCK				0000		0000	00000	0000	00000	
U.S. Government	11/12/71		A							

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\* 'GROSS SALES' SHOULD BE INTERPRETED AS THE WHOLESALE REVENUES OF THE LICENSEE.  
 1 LIST ADDRESSES AND TELEPHONE NUMBERS ON THE BACK OF THIS PAGE.  
 2 COMMENTS CODES (SEE BELOW): STATUS OF DEVELOPMENT AND CURRENT USE (INCLUDING FOREIGN PATENTS)  
 P = DROPPED  
 C = FOREIGN PATENT(S) APPLIED FOR  
 D = FOREIGN PATENT(S) GRANTED  
 N = NEGOTIATING WITH POTENTIAL LICENSEE  
 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE  
 I = US PATENT APPLICATION PENDING  
 J = US PATENT APPLICATION REJECTED LICENSEE  
 H = UNDER EVALUATION/TESTING  
 G = US PATENT APPLICATION WILL NOT BE FILED  
 K = LICENSEE TERMINATED  
 L = UNIVERSITY RIGHTS RELINQUISHED  
 M = LICENSEE AWAITING FDA APPROVAL  
 N = LICENSEE TO GOVERNMENT

PATENT ACTIVITY REPORT

ID #: (1-5)	01595
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: 5,6-TRANS-25-HYDROXYCHOLECALCIFEROL (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 02/14/72 (148-153)	DHHS INVENTION REPORT DATE: 02/11/72 (154-159)
DELUCA, H. HOLICK, M. GARABEDIAN, M.	U.S. PATENT APPLICATION SERIAL NUMBER: 226183 (171-176)	DHHS GRANT/AWARD NUMBER(S): AN15512 (179-223)
	U.S. PATENT NUMBER: 3743661 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 07/03/73 (233-239)	DHHS NUMBER: G-14-72 (239-250)

LICENSEE(S) (8-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSER CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN \$000) (66-70)	COM- MENT (71)
ROUSSEL UCLAF	11/1/71			0000		0000	00000	0000	00000	E
UPJOHN CO.				0000		0000	00000	0000	00000	
TEVA LTD.	8/1/79			0000		0000	00000	0000	00000	E
HOFFMAN LAROCHE				0000		0000	00000	0000	00000	
CHURAT				0000		0000	00000	0000	00000	E
LEO				0000		0000	00000	0000	00000	E
DIAMOND SHARROCK U.S. Government	4/17/72		A	0000		0000	00000	0000	00000	

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C-Canada

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 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

PATENT ACTIVITY REPORT

ID #:  
 (1-5)

INSTITUTION:  
 (84-99) *U of Wisconsin*

DHHS IPA NUMBER:  
 (153-154)

DATE DHHS IPA SIGNED:  
 (163-170) *12/1/68*

REPORT PREPARER:  
*WARF*

PERIOD COVERED:  
*10/1/80 TO 9/30/81*

INSTITUTION TYPE:  
*University*

INVENTION:  
 (6-79) *12-Hydroxy-2B-7-fluorocholaciferol*

INVENTOR(S):  
 (100-147) *Selico, A.  
Ikebawa, T.  
ET AL*

U.S. PATENT APPLICATION FILING DATE:  
 (148-153) *4/21/80*

U.S. PATENT APPLICATION SERIAL NUMBER:  
 (171-178) *142552*

U.S. PATENT NUMBER:  
 (224-232) *4254045*

U.S. PATENT DATE OF ISSUE:  
 (233-238) *3/3/81*

DHHS INVENTION REPORT DATE:  
 (154-159) *1/19/81*

DHHS GRANT/AWARD NUMBER(S):  
 (179-223) *AM 14881  
8019INT 76 05793*

(FOR DHHS OFFICE USE ONLY)

DHHS NUMBER:  
 (239-250)

LICENSEE(S) (6-23)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (57-61)	GROSS ROYALTY BY LICENSEE CUR YR (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (66-70)	COM-2 RENT (71)
<i>U.S. Government</i>	<i>1/15/81</i>		<i>A</i>							<i>B- Australia Brazil Denmark France Germany Italy Japan Netherlands Sweden Switzerland U.K. U.S. C- Belgium</i>

GROSS SALES SHOULD BE INTERPRETED AS THE WHOLESALE REVENUES OF THE LICENSEE.  
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 COMMENTS CODES (SEE BELOW):

1 = DROPPED  
 2 = FOREIGN PATENT(S) APPLIED FOR  
 3 = FOREIGN PATENT(S) GRANTED  
 4 = NEGOTIATING WITH POTENTIAL LICENSEE  
 5 = LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

STATUS OF DEVELOPMENT AND CURRENT USE (INCLUDING FOREIGN PATENTS)  
 E = US PATENT APPLICATION PENDING  
 F = US PATENT APPLICATION REJECTED LICENSEE  
 G = UNDER EVALUATION/TESTING  
 H = US PATENT APPLICATION WILL NOT BE FILED  
 I = LICENSEE AWAITING FDA APPROVAL  
 J = LICENSEE TO GOVERNMENT  
 K = LICENSE TERMINATED  
 L = UNIVERSITY RIGHTS RELINQUISHED

PATENT ACTIVITY REPORT

IO #: (1-5)	01487
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (150-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: 24,24-DIFLUORO-25-HYDROXYCHOLECALCIFEROL (8-79)		
INVENTOR(S): <sup>1</sup> (100-147)	U.S. PATENT APPLICATION FILING DATE: (148-153)	DHHS INVENTION REPORT DATE: (154-159)
DELUCA, H. IKEKAWA, N. ET AL	3/5/79  017,168	12/04/79
	U.S. PATENT APPLICATION SERIAL NUMBER: (171-178)	DHHS GRANT/AWARD NUMBER(S): (179-223)
	U.S. PATENT NUMBER: (224-232)	8019INT7605793 AM14881
	U.S. PATENT DATE OF ISSUE: (233-238)	(FOR DHHS OFFICE USE ONLY) DHHS NUMBER: G-32-80 (239-250)
	04/01/80	

LICENSEE(S) <sup>1</sup> (6-25)	DATE LICENSE AGREE- MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE <sup>3</sup> (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSER CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN \$000) (66-70)	COM- MENT <sup>2</sup> (71)
U.S. Government	12/5/79		A	0000.		0000	00000	0000	00000	D B - Australia Canada Denmark N. Zealand N. Port Ireland France Italy Austria Sw. Holland Japan Switz Sweden C - Belgium

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<sup>1</sup> LIST ADDRESSES AND TELEPHONE NUMBERS ON THE BACK OF THIS PAGE.  
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 J = LICENSEE TO GOVERNMENT  
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 L = UNIVERSITY RIGHTS RELINQUISHED  
<sup>3</sup> LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

PATENT ACTIVITY REPORT

ID #: (1-5)	01509
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARE
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: 1,25-DIHYDROXYERGOCALCIFEROL (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 05/24/74 (148-153)	DHHS INVENTION REPORT DATE: 06/13/74 (154-159)
DELUCA, H. JONES, G. SCHMOES, H.	U.S. PATENT APPLICATION SERIAL NUMBER: 472953 (171-178)	DHHS GRANT/AWARD NUMBER(S): 5P01AM14431 (179-223) 5P01AM15512
	U.S. PATENT NUMBER: 3880894 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 04/29/75 (233-238)	DHHS NUMBER: G-152-74 (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES* BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES* BY LICENSEE TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (IN \$000) (66-70)	COM- MENT (71)
HOFFMANN LAROCHE (US)	10/1/75		A	0000		0000	00000	0000	00000	
ROUSSEL UCLAF	11/1/71		A	0000		0000	00000	0000	00000	C
HOFFMANN LAROCHE (Switz)	9/1/77		A	0000		0000	00000	0000	00000	e
LEO				0000		0000	00000	0000	00000	e
DIAMOND SHANROCK				0000		0000	00000	0000	00000	e
U.S. Government	6/10/74		A							

C - France  
Germany  
It. Britain

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 G = UNDER EVALUATION/TESTING  
 H = US PATENT APPLICATION WILL NOT BE FILED  
 I = LICENSEE AWAITING FDA APPROVAL  
 J = LICENSEE TO GOVERNMENT  
 K = LICENSEE TERMINATED  
 L = UNIVERSITY RIGHTS RELINQUISHED



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PATENT ACTIVITY REPORT

ID #: (1-5)	01510
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: METHOD OF TREATING MILK FEVER IN DAIRY CATTLE WITH LY-HYDROXYCHOLECALIFEROL (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 01/21/74 (148-153)	DHHS INVENTION REPORT DATE: 06/13/74 (154-159)
DELUCA, H. JORGENSEN, H.	U.S. PATENT APPLICATION SERIAL NUMBER: 435099 (171-178)	DHHS GRANT/AWARD NUMBER(S): 5P01AM15512 (179-223) 5P01AM14881 (FOR DHHS OFFICE USE ONLY)
	U.S. PATENT NUMBER: 3879548 (224-232)	DHHS NUMBER: G-151-74 (239-250)
	U.S. PATENT DATE OF ISSUE: 04/22/75 (233-238)	

LICENSEE(S) (5-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYAL. BY LICENSER CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN \$000) (66-70)	COM-MENT (71)
HOFFMANN LAROCHE(US)	10/1/75		A	0000		0000	00000	0000	00000	
LED	1/1/74		A	0000		0000	00000	0000	00000	e
CHUGAI	11/1/75		A	0000		0000	00000	0000	00000	e
ROUSSEL UCLAF	11/1/71		A	0000		0000	00000	0000	00000	e
TEVA <del>HE</del> Ltd.	8/1/79		A	0000		0000	00000	0000	00000	e
WATSON CO.				0000		0000	00000	0000	00000	
DIAMOND SHANROCK				0000		0000	00000	0000	00000	
U. S. Government	6/10/74		A							

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 A = DROPPED E = US PATENT APPLICATION PENDING I = LICENSEE AWAITING FDA APPROVAL  
 B = FOREIGN PATENT(S) APPLIED FOR F = US PATENT APPLICATION REJECTED LICENSEE J = LICENSEE TO GOVERNMENT  
 C = FOREIGN PATENT(S) GRANTED G = UNDER EVALUATION/TESTING K = LICENSEE TERMINATED  
 D = NEGOTIATING WITH POTENTIAL LICENSEE H = US PATENT APPLICATION WILL NOT BE FILED L = UNIVERSITY RIGHTS RELINQUISHED  
 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

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*Tea Pharmaceuticals, Inc. P.O. Box 1483, Tallahassee, Florida - 03-985021*

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PATENT ACTIVITY REPORT

ID #: (1-5)	01619
INSTITUTION: (88-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: MTHD OF TREATING MILK FEVER IN DAIRY CATTLE W/ 1,25-DIHYDROXY-CHOLECAL... (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 07/14/78 (148-153)	DHHS INVENTION REPORT DATE: 03/22/78 (154-159)
DELUCA, H. JORGENSEN, N.	U.S. PATENT APPLICATION SERIAL NUMBER: 815587 (171-178)	DHHS GRANT/AWARD NUMBER(S): AM14881 (179-223)
	U.S. PATENT NUMBER: 4110446 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 08/29/78 (233-238)	DHHS NUMBER: G-140-78 (239-250)

LICENSEE(S) (8-25)	DATE LICENSE AGREE- -MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-48)	DATE FIRST COMMER- -CIAL SALE (47-52)	GROSS SALES* BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES* BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSER CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN \$000) (66-70)	COM- MENT (71)
HOFFMAN LAROCHE (US)	10/1/75		A	0000		0000	00000	0000	00000	
ROUSSEL UCLAF	11/1/71		A	0000		0000	00000	0000	00000	
HOFFMAN LAROCHE (Switz)	9/1/77		A	0000		0000	00000	0000	00000	
ABBOTT LABS	1/1/78		A	0000		0000	00000	0000	00000	
UPJOHN				0000		0000	00000	0000	00000	
LEO				0000		0000	00000	0000	00000	
CHUGAI				0000		0000	00000	0000	00000	
U.S. Government	3/31/78		A							

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PATENT ACTIVITY REPORT

ID #: (1-5)	01492
INSTITUTION: (30-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (153-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: PROCESS FOR PREPARING CALCITROIC ACID AND ESTERS THEREOF (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 02/20/80 (148-153)	DHHS INVENTION REPORT DATE: 04/18/80 (154-159)
DELUCA, H. SCHNOES, H. ESVELT, R.	U.S. PATENT APPLICATION SERIAL NUMBER: 122921 (171-178)	DHHS GRANT/AWARD NUMBER(S): AM14881 (179-223)
	U.S. PATENT NUMBER: 4260804 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 4/7/81 (233-238)	DHHS NUMBER: G-155-80 (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE PER YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (IN \$000) (66-70)	COM-MENT (71)
UPJOHN	7/1/73		A	0000		0000	00000	0000	00000	
HOFFMAN LAROCHE(US)	10/1/75		A	0000		0000	00000	0000	00000	
LEO	1/1/74		A	0000		0000	00000	0000	00000	*
CHUGAI	11/1/75		A	0000		0000	00000	0000	00000	*B
ROUSSEL UCLAF	11/1/71		A	0000		0000	00000	0000	00000	*B
U.S. Government	4/2/80		A							B. France Aot. Brit. Ireland Israel Japan Germany

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PATENT ACTIVITY REPORT

IO #: (1-5)	01493
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (155-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: 1 ALPHA-HYDROXYCALCIDIC ACID AND ESTERS THEREOF (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: (148-153)	DHHS INVENTION REPORT DATE: (154-159)
DELUCA, H. SCHNOES, H. ESVELT, R.	U.S. PATENT APPLICATION SERIAL NUMBER: (171-178)	DHHS GRANT/AWARD NUMBER(S): (179-223)
	U.S. PATENT NUMBER: (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: (233-238)	DHHS NUMBER: (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-45)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSER CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN \$000) (66-70)	COM-MENT (71)
UPJOHN	7/1/73		A	0000		0000	00000	0000	00000	
HOFFMAN LAROCHE (US)	10/1/75		A	0000		0000	00000	0000	00000	
LEO	1/1/74		A	0000		0000	00000	0000	00000	B
ROUSSEL UCLAF	11/1/71		A	0000		0000	00000	0000	00000	B
CHUGAI	11/1/75		A	0000		0000	00000	0000	00000	B
U.S. Government	4/2/80		A							B - Israel France Brit. Ireland Germany Japan Italy

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 G = UNDER EVALUATION/TESTING  
 H = US PATENT APPLICATION WILL NOT BE FILED  
 I = LICENSEE AWAITING FDA APPROVAL  
 J = LICENSEE TO GOVERNMENT  
 K = LICENSE TERMINATED  
 L = UNIVERSITY RIGHTS RELINQUISHED

PATENT ACTIVITY REPORT

ID #: 01584  
(1-5)

INSTITUTION: U OF WISCONSIN  
(80-99)

DHHS IPA NUMBER:   
(150-164)

DATE DHHS IPA SIGNED: 12/01/69  
(165-170)

REPORT PREPARER: WARF

PERIOD COVERED: 10/1/80 TO 9/30/81

INSTITUTION TYPE: UNIVERSITY

INVENTION: 1,25-DIHYDROXYCHOLECALCIFEROL  
(6-79)

INVENTOR(S):  
(100-147)

U.S. PATENT APPLICATION FILING DATE: 2/25/71  
(148-153)

DHHS INVENTION REPORT DATE: 04/08/71  
(154-159)

DELUCA, H.  
SCHNOES, H.  
HOLICK, M.

U.S. PATENT APPLICATION SERIAL NUMBER: 118881  
(171-178)

DHHS GRANT/AWARD NUMBER(S): AM0580010  
(179-223)

U.S. PATENT NUMBER: 3697559  
(224-232)

U.S. PATENT DATE OF ISSUE: 10/10/72  
(233-238)

(FOR DHHS OFFICE USE ONLY)

DHHS NUMBER: G-75-71  
(239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREE- -MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE IN CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (IN \$000) (66-70)	COM- MENT (71)
HOFFMAN LAROCHE (US)	10/1/75		A	0000	10/78	0000	00000	0000	00000	B
ROUSSEL UCLAF	11/1/71		A	0000		0000	00000	0000	00000	C
ABBOTT LABS	1/1/78		A	0000		0000	00000	0000	00000	
AMERSHAM/SEARLE	11/2/72		A	0000		0000	00000	0000	00000	
LEO				0000		0000	00000	0000	00000	B
CHUCAI				0000		0000	00000	0000	00000	C
UPJOHN CO. Hoffmann-La Roche Equity	9/1/77		A	0000	11/78	0000	00000	0000	00000	
U.S. Government	11/12/71		A							

A - Holland  
C - Canada  
France  
H. Germany  
Let. Britain

**CONFIDENTIAL**  
Total gross royalties - \$631,820.00  
Expenses - \$105,149.00

**CONFIDENTIAL**

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\* 'GROSS SALES' SHOULD BE INTERPRETED AS THE WHOLESALE REVENUES OF THE LICENSEE.  
1 LIST ADDRESSES AND TELEPHONE NUMBERS ON THE BACK OF THIS PAGE.  
2 COMMENTS CODES (SEE BELOW): STATUS OF DEVELOPMENT AND CURRENT USE (INCLUDING FOREIGN PATENTS)  
B = DROPPED  
C = FOREIGN PATENT(S) APPLIED FOR  
D = FOREIGN PATENT(S) GRANTED  
E = NEGOTIATING WITH POTENTIAL LICENSEE  
3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE  
F = US PATENT APPLICATION PENDING  
G = US PATENT APPLICATION REJECTED  
H = UNDER EVALUATION/TESTING  
I = LICENSEE AWAITING FDA APPROVAL  
J = LICENSEE TO GOVERNMENT  
K = LICENSE TERMINATED  
L = UNIVERSITY RIGHTS RELINQUISHED

PATENT ACTIVITY REPORT

ID #: (1-5)	01516
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: 3-DEOXY-1 ALPHA-HYDROXYCHOLESCALCIFEROL (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 3/7/77 06/17/74 (148-153)	DHHS INVENTION REPORT DATE: 03/28/74 (154-159)
DELUCA, H. SCHNOES, H. LAN, H.	U.S. PATENT APPLICATION SERIAL NUMBER: Re. 774996 420211 (171-178)	DHHS GRANT/AWARD NUMBER(S): AM14881 (179-223)
	U.S. PATENT NUMBER: 3906014 (224-232) Re. 30538	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 02/16/75 3/3/81 (233-238)	DHHS NUMBER: G-262-74 (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-45)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE BY CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (IN \$000) (66-70)	COM-MENT (71)
ROUSSEL UCLAF	11/1/71	A		0000		0000	00000	0000	00000	C
TEVA LTD.	8/1/79	A		0000		0000	00000	0000	00000	E
HOFFMANN LAROCHE				0000		0000	00000	0000	00000	
LEO				0000		0000	00000	0000	00000	E
CHUGAI				0000		0000	00000	0000	00000	E
ABBOTT-LABS				0000		0000	00000	0000	00000	
KREBSHAW/SEARLE				0000		0000	00000	0000	00000	
UPJOHN				0000		0000	00000	0000	00000	
DIAMOND SHAMROCK				0000		0000	00000	0000	00000	
U.S. Government	11/13/74	A								

C-France  
Kerning  
Pat. Rights

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\* 'GROSS SALES' SHOULD BE INTERPRETED AS THE WHOLESALE REVENUES OF THE LICENSEE.  
 1 LIST ADDRESSES AND TELEPHONE NUMBERS ON THE BACK OF THIS PAGE.  
 2 COMMENTS CODES (SEE BELOW):  
 A = DROPPED  
 B = FOREIGN PATENT(S) APPLIED FOR  
 C = FOREIGN PATENT(S) GRANTED  
 D = NEGOTIATING WITH POTENTIAL LICENSEE  
 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE  
 E = US PATENT APPLICATION PENDING  
 F = US PATENT APPLICATION REJECTED LICENSEE  
 G = UNDER EVALUATION/TESTING  
 H = US PATENT APPLICATION WILL NOT BE FILED  
 I = LICENSEE AWAITING FDA APPROVAL  
 J = LICENSEE TO GOVERNMENT  
 K = LICENSE TERMINATED  
 L = UNIVERSITY RIGHTS RELINQUISHED



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Attn: Administration, 70. Chicago, Ill. 60664 - (312) 937-6100

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PATENT ACTIVITY REPORT

ID # 01515  
(1-5)

INSTITUTION: U OF WISCONSIN  
(80-99)

DHHS IPA NUMBER:  
(160-164)

DATE DHHS IPA SIGNED: 12/01/68  
(155-170)

REPORT PREPARER: WART

PERIOD COVERED: 10/1/50 TO 9/30/81

INSTITUTION TYPE: UNIVERSITY

INVENTION: 1 ALPHA-HYDROXYERGOCALCIFEROL and Process for Preparing Same  
(6-79)

INVENTOR(S):  
(100-147)

DELUCA, H.  
SHNOES, H.  
LAM, H.

U.S. PATENT APPLICATION FILING DATE: 06/14/74  
(148-153)

U.S. PATENT APPLICATION SERIAL NUMBER: 479224  
(171-178)

U.S. PATENT NUMBER: 3907843  
(224-232)

U.S. PATENT DATE OF ISSUE: 09/23/75  
(233-238)

DHHS INVENTION REPORT DATE: 08/28/74  
(154-159)

DHHS GRANT/AWARD NUMBER(S): AM14881  
(179-223)

(FOR DHHS OFFICE USE ONLY)

DHHS NUMBER: G-263-74  
(239-250)

LICENSEE(S) (8-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTY BY LICENSEE TO DATE (IN \$000) (66-70)	COM-MENT (71)
ROUSSEL UCLAF	11/1/71		A	0000		0000	00000	0000	00000	C
TEVA LTD.	8/1/79		A	0000		0000	00000	0000	00000	C
REVLON INC.	6/1/80		A	0000		0000	00000	0000	00000	
UPJOHN				0000		0000	00000	0000	00000	
LEO				0000		0000	00000	0000	00000	C
CHUGAI				0000		0000	00000	0000	00000	C
HUFFMAN LAROCHE				0000		0000	00000	0000	00000	C
ABBOTT LABS				0000		0000	00000	0000	00000	
AMERSHAM SEARLE				0000		0000	00000	0000	00000	
DIANOND SHARROCK				0000		0000	00000	0000	00000	
U.S. Government	11/13/74		A							C - France Germany It. Britain

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Total gross royalties \$8,000.00  
Expenses - \$20,893.00

CONFIDENTIAL

\* 'GROSS SALES' SHOULD BE INTERPRETED AS THE WHOLESALE REVENUES OF THE LICENSEE  
 1 LIST ADDRESSES AND TELEPHONE NUMBERS ON THE BACK OF THIS PAGE.  
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 D = DROPPED  
 F = US PATENT APPLICATION PENDING  
 R = US PATENT APPLICATION REJECTED  
 G = UNDER EVALUATION/TESTING  
 H = US PATENT APPLICATION WILL NOT BE FILED  
 L = UNIVERSITY RIGHTS RELINQUISHED  
 I = LICENSEE AWAITING FDA APPROVAL  
 J = LICENSEE TO GOVERNMENT  
 K = LICENSE TERMINATED  
 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

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PATENT ACTIVITY REPORT

IO #1 (1-5)	
INSTITUTION: (80-99)	<i>U. of Wisconsin</i>
DHHS IPA NUMBER: (150-154)	
DATE DHHS IPA SIGNED: (165-170)	<i>12/1/68</i>
REPORT PREPARER:	<i>WARF</i>
PERIOD COVERED:	<i>10/1/80 TO 9/30/81</i>
INSTITUTION TYPE:	<i>University</i>

INVENTION: (6-79)	<i>Vitamin D Derivatives</i>	
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: (148-153)	DHHS INVENTION REPORT DATE: (154-159)
<i>De Luca, H. Schroes, H. Le Van, L.</i>	<i>11/17/80</i>	<i>1/19/81</i>
	U.S. PATENT APPLICATION SERIAL NUMBER: (171-178)	DHHS GRANT/AWARD NUMBER(S): (179-223)
	<i>207169</i>	<i>AM 14881</i>
	U.S. PATENT NUMBER: (224-232)	(FOR DHHS OFFICE USE ONLY)
	<i>4292250</i>	
	U.S. PATENT DATE OF ISSUE: (233-238)	DHHS NUMBER: (239-250)
	<i>9/29/81</i>	

LICENSEE(S) (6-25)	DATE LICENSE AGREE- -MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSER CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN \$000) (66-70)	COM- MENT (71)
<i>U.S. Government</i>	<i>1/15/81</i>		<i>A</i>							

\* 'GROSS SALES' SHOULD BE INTERPRETED AS THE WHOLESALE REVENUES OF THE LICENSEE.  
 1 LIST ADDRESSES AND TELEPHONE NUMBERS ON THE BACK OF THIS PAGE.  
 2 COMMENTS CODES (SEE BELOW): STATUS OF DEVELOPMENT AND CURRENT USE (INCLUDING FOREIGN PATENTS)  
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 I = LICENSEE AWAITING FDA APPROVAL  
 J = LICENSEE TO GOVERNMENT  
 K = LICENSEE TERMINATED  
 L = UNIVERSITY RIGHTS RELINQUISHED  
 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

PATENT ACTIVITY REPORT

ID #: (1-5)	01616
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: 25-A2A-VITAMIN-D3 (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 03/24/77 (148-153)	DHHS INVENTION REPORT DATE: 03/22/78 (154-159)
DELUCA, H. SCHNOES, H. ONISKO, B.	U.S. PATENT APPLICATION SERIAL NUMBER: 791008 (171-178)	DHHS GRANT/AWARD NUMBER(S): AM14881 (179-223)
	U.S. PATENT NUMBER: (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: (233-238)	DHHS NUMBER: G-146-78 (239-250)

LICENSEE(S) (8-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYAL. BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (IN \$000) (66-70)	COM- MENT (71)
U.S. Government	3/31/78		A	0000		0000	00000	0000	00000	A

\* 'GROSS SALES' SHOULD BE INTERPRETED AS THE WHOLESALE REVENUES OF THE LICENSEE.  
 1 LIST ADDRESSES AND TELEPHONE NUMBERS ON THE BACK OF THIS PAGE.  
 2 COMMENTS CODES (SEE BELOW): STATUS OF DEVELOPMENT AND CURRENT USE (INCLUDING FOREIGN PATENTS)  
 A = DROPPED I = US PATENT APPLICATION PENDING I = LICENSEE AWAITING FDA APPROVAL  
 B = FOREIGN PATENT(S) APPLIED FOR J = US PATENT APPLICATION REJECTED LICENSEE J = LICENSEE TO GOVERNMENT  
 C = FOREIGN PATENT(S) GRANTED K = UNDER EVALUATION/TESTING K = LICENSE TERMINATED  
 D = NEGOTIATING WITH POTENTIAL LICENSEE H = US PATENT APPLICATION WILL NOT BE FILED L = UNIVERSITY RIGHTS RELINQUISHED  
 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

PATENT ACTIVITY REPORT

ID #: (1-5)	01620
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: ANTI-VITAMIN "D" COMPOUNDS (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 05/19/78 (148-153)	DHHS INVENTION REPORT DATE: 03/22/78 (154-159)
DELUCA, H. SCHNOES, H. ONISKO, B.	U.S. PATENT APPLICATION SERIAL NUMBER: 907893 (171-178)	DHHS GRANT/AWARD NUMBER(S): AM14881 (179-223)
	U.S. PATENT NUMBER: 4217288 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 8/12/80 (233-238)	DHHS NUMBER: G-146-78 (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSER CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN \$000) (66-70)	COM- MENT (71)
U.S. Government	3/3/78		A	0000		0000	00000	0000	00000	B-UK Britain France Holland Germany Japan

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 1 LIST ADDRESSES AND TELEPHONE NUMBERS ON THE BACK OF THIS PAGE.  
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 H = US PATENT APPLICATION WILL NOT BE FILED  
 I = LICENSEE AWAITING FDA APPROVAL  
 J = LICENSEE TO GOVERNMENT  
 K = LICENSE TERMINATED  
 L = UNIVERSITY RIGHTS RELINQUISHED

PATENT ACTIVITY REPORT

ID #: 01592  
(1-5)

INSTITUTION: U OF WISCONSIN  
(80-99)

DHHS IPA NUMBER: (160-164)

DATE DHHS IPA SIGNED: 12/01/68  
(169-170)

REPORT PREPARER: WARF

PERIOD COVERED: 10/1/60 TO 9/30/81

INSTITUTION TYPE: UNIVERSITY

INVENTION: 1 ALPHA-HYDROXYCHOLECALCIFEROL  
(6-79)

INVENTOR(S):  
(100-147)  
DELUCA, H.  
SCHNOES, H.  
ET AL

U.S. PATENT APPLICATION FILING DATE: 12/02/71  
(148-153)

U.S. PATENT APPLICATION SERIAL NUMBER: 204305  
(171-173)

U.S. PATENT NUMBER: 3741996  
(224-232)

U.S. PATENT DATE OF ISSUE: 06/26/73  
(233-238)

DHHS INVENTION REPORT DATE: 12/02/71  
(154-159)

DHHS GRANT/AWARD NUMBER(S): AM15512  
(179-223)

(FOR DHHS OFFICE USE ONLY)

DHHS NUMBER: G-219-71  
(239-250)

LICENSEE(S) (8-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (IN \$000) (66-70)	COM- MENT (71)
LEO	1/1/74		A	0000	2/79	0000	00000	0000	00000	C
CHUGAI	11/1/75		A	0000	1/81	0000	00000	0000	00000	B
ROUSSEL UCLAF	11/1/71		A	0000		0000	00000	0000	00000	C
TEVA LTD.	8/1/79		A	0000	8/79	0000	00000	0000	00000	B
HEPPOH				0000		0000	00000	0000	00000	
HOFFMAN-LAROCHE				0000		0000	00000	0000	00000	B
ABBOTT-LABS				0000		0000	00000	0000	00000	
AMERSHAM/SEARLE				0000		0000	00000	0000	00000	B
RIANOHO SHARON				0000		0000	00000	0000	00000	B

B-Japan  
C-Canada  
Denmark  
France  
Germany  
It. Britain  
Holland  
Switz.

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Total gross royalties \$204,471.00  
Expenses - \$143,379.00

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\* 'GROSS SALES' SHOULD BE INTERPRETED AS THE WHOLESALE REVENUES OF THE LICENSEE.  
1 LIST ADDRESSES AND TELEPHONE NUMBERS ON THE BACK OF THIS PAGE.  
2 COMMENTS CODES (SEE BELOW): STATUS OF DEVELOPMENT AND CURRENT USE (INCLUDE HIGH PRIORITY)  
A = DROPPED E = US PATENT APPLICATION PENDING I = LICENSEE AWAITING FDA APPROVAL  
B = FOREIGN PATENT(S) APPLIED FOR F = US PATENT APPLICATION REJECTED LICENSEE J = LICENSEE TO GOVERNMENT  
C = FOREIGN PATENT(S) GRANTED G = UNDER EVALUATION/TESTING K = LICENSE TERMINATED  
D = NEGOTIATING WITH POTENTIAL LICENSEE H = US PATENT APPLICATION WILL NOT BE FILED L = UNIVERSITY RIGHTS RELINQUISHED  
3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

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PATENT ACTIVITY REPORT

ID #: (1-5)	01551
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/68 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: PROCESS FOR PREPARING 1 ALPHA-HYDROXYLATED COMPOUNDS (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 05/21/79 (148-153)	DHHS INVENTION REPORT DATE: 06/19/80 (154-159)
DELUCA, H. SCHNOES, H. ET AL	U.S. PATENT APPLICATION SERIAL NUMBER: 041079 (171-178)	DHHS GRANT/AWARD NUMBER(S): AM14881 (179-223)
	U.S. PATENT NUMBER: 4260549 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 4/7/81 (233-238)	DHHS NUMBER: G-278-80 (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREE- -MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TO DATE (IN \$000) (57-61)	GROSS ROYAL, BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (IN \$000) (66-70)	COM- MENT (71)
HOFFMAN/LAROCHE (US)	10/1/75		A	0000		0000	00000	0000	00000	C
LEO	11/1/74		A	0000		0000	00000	0000	00000	B
CHUGAI	11/1/75		A	0000		0000	00000	0000	00000	B
ROUSSEL UCLAF	11/1/71		A	0000		0000	00000	0000	00000	CB
ABBOTT LABS	11/1/78		A	0000		0000	00000	0000	00000	
TEVA	8/1/79		A	0000		0000	00000	0000	00000	
WERSHAW/SEARLE	11/21/77		A	0000		0000	00000	0000	00000	
Hoffmann La Roche (Switz)	9/1/77		A							B-France
U.S. Government	8/26/80		A							Holland
Reulon	6/1/80		A							C-Belgium

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 A = DROPPED E = US PATENT APPLICATION PENDING I = LICENSEE AWAITING FDA APPROVAL  
 B = FOREIGN PATENT(S) APPLIED FOR F = US PATENT APPLICATION REJECTED LICENSEE J = LICENSEE TO GOVERNMENT  
 C = FOREIGN PATENT(S) GRANTED G = UNDER EVALUATION/TESTING K = LICENSEE TERMINATED  
 D = NEGOTIATING WITH POTENTIAL LICENSEE H = US PATENT APPLICATION WILL NOT BE FILED L = UNIVERSITY RIGHTS RELINQUISHED  
 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE



PATENT ACTIVITY REPORT

ID #: (1-5)	01617
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: PROCESS FOR PREPARING ALPHA-HYDROXYLATED COMPOUNDS (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 12/13/78 (148-153)	DHHS INVENTION REPORT DATE: 03/22/78 (154-159)
DELUCA, H. SCHNOES, H. ET AL	U.S. PATENT APPLICATION SERIAL NUMBER: 968738 657161 (171-178)	DHHS GRANT/AWARD NUMBER(S): AM14881 (179-223)
	U.S. PATENT NUMBER: 4202829 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 05/13/80 (233-238)	DHHS NUMBER: G-145-78 (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES* BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES* BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYAL. BY LICENSER CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN \$000) (66-70)	COM- MENT (71)
HOFFMAN LAROCHE (US)	10/1/75		A	0000		0000	00000	0000	00000	
LEO	1/1/74		A	0000		0000	00000	0000	00000	e
CHUGAI	11/1/75		A	0000		0000	00000	0000	00000	e
ROUSSÉL UCLAF	11/1/71		A	0000		0000	00000	0000	00000	e
HOFFMAN LAROCHE (Switz)	9/1/77		A	0000		0000	00000	0000	00000	e
ABBOTT LABS	1/1/78		A	0000		0000	00000	0000	00000	
TEVA LTD	8/1/79		A	0000		0000	00000	0000	00000	e
<del>MERSHAN/SEARLE</del>				0000		0000	00000	0000	00000	
Revlon	6/1/80		A							B-Canada

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\* 'GROSS SALES' SHOULD BE INTERPRETED AS THE WHOLESALE REVENUES OF THE LICENSEE.  
 1 LIST ADDRESSES AND TELEPHONE NUMBERS ON THE BACK OF THIS PAGE.  
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 A = DROPPED E = US PATENT APPLICATION PENDING I = LICENSEE AWAITING FDA APPROVAL  
 B = FOREIGN PATENT(S) APPLIED FOR F = US PATENT APPLICATION REJECTED LICENSEE J = LICENSEE TO GOVERNMENT  
 C = FOREIGN PATENT(S) GRANTED G = UNDER EVALUATION/TESTING K = LICENSEE TERMINATED  
 O = NEGOTIATING WITH POTENTIAL LICENSEE H = US PATENT APPLICATION WILL NOT BE FILED L = UNIVERSITY RIGHTS RELINQUISHED  
 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

PATENT ACTIVITY REPORT

IC # (1-5) 01618

INSTITUTION: (80-99) U OF WISCONSIN

DHHS IPA NUMBER: (150-154)

DATE DHHS IPA SIGNED: (155-170) 12/01/68

REPORT PREPARER: WAF

PERIOD COVERED: 10/1/80 TO 9/30/81

INSTITUTION TYPE: UNIVERSITY

INVENTION: PROCESS FOR PREPARING ALPHA-HYDROXYLATED COMPOUNDS (6-79)

INVENTOR(S): (100-147) DELUCA, H. SCHNOES, H. ET AL

U.S. PATENT APPLICATION FILING DATE: 01/16/78 (148-153)

U.S. PATENT APPLICATION SERIAL NUMBER: 914796 (171-178)

U.S. PATENT NUMBER: 4195027 (224-232)

U.S. PATENT DATE OF ISSUE: 03/25/80 (233-238)

DHHS INVENTION REPORT DATE: 03/22/78 (154-159)

DHHS GRANT/AWARD NUMBER(S): AM14881 (179-223)

(FOR DHHS OFFICE USE ONLY)

DHHS NUMBER: G-141-78 (239-250)

LICENSEE(S) (8-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (57-61)	GROSS ROYALTY BY LICENSEE CUR YR (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (66-70)	COM- MENT (71)
HOFFMAN LAROCHE (US)	10/1/75		A	0000		0000	00000	0000	00000	
LEO	1/1/74		A	0000		0000	00000	0000	00000	EB
CHUGAI	11/1/75		A	0000		0000	00000	0000	00000	EB
ROUSSEL UCLAF	11/1/71		A	0000		0000	00000	0000	00000	EB
HOFFMAN LAROCHE (Switz)	9/1/77		A	0000		0000	00000	0000	00000	EB
ABBOTT LABS	1/1/78		A	0000		0000	00000	0000	00000	
TEVA LTD	8/1/79		A	0000		0000	00000	0000	00000	
<del>ANEPHAM/SEARLE</del>				0000		0000	00000	0000	00000	
Revlon	6/1/80		A							

B - Australia  
Canada  
France  
Gt. Brit.  
Germany  
Ireland  
Japan  
N. Zealand  
Sweden  
Switzerland

CONFIDENTIAL

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 A = DROPPED; B = FOREIGN PATENT(S) APPLIED FOR; C = FOREIGN PATENT(S) GRANTED; D = NEGOTIATING WITH POTENTIAL LICENSEE; E = US PATENT APPLICATION PENDING; F = US PATENT APPLICATION REJECTED LICENSEE; G = UNDER EVALUATION/TESTING; H = US PATENT APPLICATION WILL NOT BE FILED.  
 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE; I = LICENSEE AWAITING FDA APPROVAL; J = LICENSEE TO GOVERNMENT; K = LICENSE TERMINATED; L = UNIVERSITY RIGHTS RELINQUISHED

PATENT ACTIVITY REPORT

ID #: (1-5)	01489
INSTITUTION: (30-59)	U OF WISCONSIN
DHHS IPA NUMBER: (150-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: DERIVATIVES OF 25-HYDROXYCHOLECALCIFEROL (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: (148-153)	DHHS INVENTION REPORT DATE: (154-159)
DELUCA, H. SCHNOES, H. ET AL	9/4/79  071972	01/29/80
	U.S. PATENT NUMBER: (224-232)	DHHS GRANT/AWARD NUMBER(S): (179-223)
	4224234	
	U.S. PATENT DATE OF ISSUE: (233-238)	(FOR DHHS OFFICE USE ONLY)
	09/23/80	DHHS NUMBER: G-156-80 (239-250)

LICENSEE(S) (8-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSER CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN \$000) (66-70)	COM- MENT (71)
UP JOHN	7/1/73		A	0000		0000	00000	0000	00000	
HOFFMAN-LAROCHE (us)	10/1/75		A	0000		0000	00000	0000	00000	
LEO	1/1/74		A	0000		0000	00000	0000	00000	A
CHUGAI	1/1/75		A	0000		0000	00000	0000	00000	A
ROUSSEL UCLAF	1/1/71		A	0000		0000	00000	0000	00000	A
DIAMOND SHARROCK	1/1/76		A	0000		0000	00000	0000	00000	
U.S. Government	4/2/80		A							

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 2 COMMENTS CODES (SEE BELOW): STATUS OF DEVELOPMENT AND CURRENT USE (INCLUDING FOREIGN PATENTS)  
 A = DROPPED  
 B = FOREIGN PATENT(S) APPLIED FOR  
 C = FOREIGN PATENT(S) GRANTED  
 D = NEGOTIATING WITH POTENTIAL LICENSEE  
 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE  
 E = US PATENT APPLICATION PENDING  
 F = US PATENT APPLICATION REJECTED LICENSEE  
 G = UNDER EVALUATION/TESTING  
 H = US PATENT APPLICATION WILL NOT BE FILED  
 I = LICENSEE AWAITING FDA APPROVAL  
 J = LICENSEE TO GOVERNMENT  
 K = LICENSE TERMINATED  
 L = UNIVERSITY RIGHTS RELINQUISHED

12 The Lyellin Company, Kalamazoo, Michigan 49001 - (616) 323-4000

11 Kytmenon - for stock sale, Mully, NY 07110 - (801)-335-5000

10 des Pharmaceutical Products, DR-2750 Gaithersburg, Gaithersburg - 7452945888

9 Chugai Pharmaceutical Co., Ltd., 1-9, Kyobashi 2-Chome, Chuo-Ku, Tokyo, 104 Japan - (03) 281-6611

8 Kennel UCLAF, 35 Boulevard des Saules, 75007, Paris, France - (1) 555 91 55

7 Diamond Diamond Corporation, 1100 Supercenter Drive, Cleveland, Ohio 44114 - (216) 694-5000

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PATENT ACTIVITY REPORT

ID #: 01490  
(1-5)

INSTITUTION: U OF WISCONSIN  
(80-99)

DHHS IPA NUMBER: (150-164)

DATE DHHS IPA SIGNED: 12/01/68  
(165-170)

REPORT PREPARER: WARF

PERIOD COVERED: 10/1/80 TO 9/30/81

INSTITUTION TYPE: UNIVERSITY

INVENTION: DERIVATIVES OF 25-HYDROXYCHOLECALCIFEROL  
(6-79)

INVENTOR(S): DELUCA, H.  
(100-147) SCHNOES, H.  
ET AL

U.S. PATENT APPLICATION FILING DATE: 9/4/79  
(148-153)

U.S. PATENT APPLICATION SERIAL NUMBER: 071973  
(171-178)

U.S. PATENT NUMBER: 4229359  
(224-232)

U.S. PATENT DATE OF ISSUE: 10/21/80  
(233-238)

DHHS INVENTION REPORT DATE: 01/29/80  
(154-159)

DHHS GRANT/AWARD NUMBER(S): AM14881  
(179-223)

(FOR DHHS OFFICE USE ONLY)

DHHS NUMBER: G-158-80  
(239-250)

LICENSEE(S) (8-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES* BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES* BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	ROYALTY BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (IN \$000) (66-70)	COM- MENT (71)
UPJOHN	7/1/73		A	0000		0000	00000	0000	00000	
HOFFMAN LAROCHE (US)	10/1/75		A	0000		0000	00000	0000	00000	
LEO	11/1/74		A	0000		0000	00000	0000	00000	A
CHUGAI	11/1/75		A	0000		0000	00000	0000	00000	A
ROUSSEL UCLAF	11/1/76		A	0000		0000	00000	0000	00000	A
DIAMOND SHAMROCK	11/1/71		A	0000		0000	00000	0000	00000	
U.S. Government	4/2/80		A							

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 D = DROPPED  
 F = FOREIGN PATENT(S) APPLIED FOR  
 G = FOREIGN PATENT(S) GRANTED  
 H = NEGOTIATING WITH POTENTIAL LICENSEE  
 I = LICENSEE AWAITING FDA APPROVAL  
 J = US PATENT APPLICATION PENDING  
 K = US PATENT APPLICATION REJECTED  
 L = LICENSEE TO GOVERNMENT  
 M = UNDER EVALUATION/TESTING  
 N = US PATENT APPLICATION WILL NOT BE FILED  
 O = LICENSEE TERMINATED  
 P = UNIVERSITY RIGHTS RELINQUISHED  
 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

PATENT ACTIVITY REPORT

ID #: (1-5)	01549
INSTITUTION: (88-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: PROCESS FOR PREPARING 1 ALPHA-HYDROXY-VITAMIN-D-COMPODS FROM 1 ALPHA-... (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: (148-153)	DHHS INVENTION REPORT DATE: (154-159)
DELUCA, H. SCHNOES, H. ET AL	U.S. PATENT APPLICATION SERIAL NUMBER: (171-178)	DHHS GRANT/AWARD NUMBER(S): (179-223)
	U.S. PATENT NUMBER: (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: (233-238)	DHHS NUMBER: G-217-80 (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE FOR CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (IN \$000) (66-70)	COM-MENT (71)
HOFFMAN LAROCHE (US)	10/1/75		A	0000		0000	00000	0000	00000	
LEO	1/1/74		A	0000		0000	00000	0000	00000	B
CHUGAI	1/1/75		A	0000		0000	00000	0000	00000	A
ROUSSEL UCLAF	1/1/75		A	0000		0000	00000	0000	00000	B
HOFFMAN LAROCHE (Switz)	9/1/77		A	0000		0000	00000	0000	00000	B
ABBOTT LABS	1/1/78		A	0000		0000	00000	0000	00000	
TEVA LTD	8/1/79		A	0000		0000	00000	0000	00000	B
AMERICAN SEARLE				0000		0000	00000	0000	00000	
U.S. Government	6/1/80		A							B - U.K. Britain Ireland Israel

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 C = FOREIGN PATENT(S) GRANTED  
 D = NEGOTIATING WITH POTENTIAL LICENSEE  
 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE  
 E = US PATENT APPLICATION PENDING  
 F = US PATENT APPLICATION REJECTED LICENSEE  
 G = UNDER EVALUATION/TESTING  
 H = US PATENT APPLICATION WILL NOT BE FILED  
 I = LICENSEE AWAITING FDA APPROVAL  
 J = LICENSEE TO GOVERNMENT  
 K = LICENSE TERMINATED  
 L = UNIVERSITY RIGHTS RELINQUISHED

PATENT ACTIVITY REPORT

Id #: 01550  
(1-5)

INSTITUTION: U OF WISCONSIN  
(80-99)

DHHS IPA NUMBER:  
(160-164)

DATE DHHS IPA SIGNED: 12/01/68  
(165-170)

REPORT PREPARER: WRAF

PERIOD COVERED: 10/1/80 TO 9/30/81

INSTITUTION TYPE: UNIVERSITY

INVENTION: 25-HYDROXYCHOLECALCIFEROL-26,23 LACTONE  
(6-79)

INVENTOR(S):  
(100-147)

U.S. PATENT APPLICATION FILING DATE: 1/26/79  
(148-153)

DELUCA, H.  
SCHNOES, H.  
ET AL

U.S. PATENT APPLICATION SERIAL NUMBER: 007473  
(171-179)

U.S. PATENT NUMBER: 4223131  
(224-232)

U.S. PATENT DATE OF ISSUE: 09/16/80  
(233-238)

DHHS INVENTION REPORT DATE: 04/18/80  
(154-159)

DHHS GRANT/AWARD NUMBER(S): AM14881  
(179-223)

(FOR DHHS OFFICE USE ONLY)

DHHS NUMBER: G-157-80  
(239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES* BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES* BY LICENSEE TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSER CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN \$000) (66-70)	COM- MENT (71)
UPJOHN	7/1/73		A	0000		0000	00000	0000	00000	
HOFFMAN LAROCHE (US)	10/1/75		A	0000		0000	00000	0000	00000	
LEO	1/1/74		A	0000		0000	00000	0000	00000	B
CHUGAI	11/1/75		A	0000		0000	00000	0000	00000	B
ROUSSEL UCLAF	11/1/71		A	0000		0000	00000	0000	00000	B
U.S. Government	4/2/80		A							

B- Austria  
Israel  
N. Zealand  
France  
Et. Britain  
Ireland  
Denmark  
Germany  
Holland  
Japan  
Switzerland  
C- Belgium

CONFIDENTIAL

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 A = DROPPED; B = FOREIGN PATENT(S) APPLIED FOR; C = FOREIGN PATENT(S) GRANTED; D = NEGOTIATING WITH POTENTIAL LICENSEE; H = US PATENT APPLICATION WILL NOT BE FILED; I = LICENSEE AWAITING FDA APPROVAL; J = LICENSEE TO GOVERNMENT; K = LICENSE TERMINATED; L = UNIVERSITY RIGHTS RELINQUISHED  
 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

PATENT ACTIVITY REPORT

ID #: (1-5)	01552
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: 1ALPHA-HYDROXY-25-KETO-27-NOR-CHOLECALIFEROL & PROCESSES FOR PREPAR. SAME (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 05/21/79 (148-153)	DHHS INVENTION REPORT DATE: 5/2/80 (154-159)
DELUCA, H. SCHNOES, H. ET AL	U.S. PATENT APPLICATION SERIAL NUMBER: 041081 (171-173)	DHHS GRANT/AWARD NUMBER(S): DE07031 (179-223)
	U.S. PATENT NUMBER: 4264513 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 4/28/81 (233-238)	DHHS NUMBER: G-218-80 (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES* BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES* BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSER CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN \$000) (66-70)	COM- MENT (71)
UPJOHN	7/1/73		A	0000		0000	00000	0000	00000	
HOFFMAN LAROCHE(US)	10/1/75		A	0000		0000	00000	0000	00000	
LEO	1/1/74		A	0000		0000	00000	0000	00000	e
CHUGAI	11/1/75		A	0000		0000	00000	0000	00000	eB
ROUSSEL UCLAF	11/1/71		A	0000		0000	00000	0000	00000	eB
U.S. Government	7/2/80		A							

B - G. Brit.  
Ireland  
France  
Germany  
Japan  
Switzerland  
Israel

CONFIDENTIAL

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 B = FOREIGN PATENT(S) APPLIED FOR J = US PATENT APPLICATION REJECTED LICENSEE J = LICENSEE TO GOVERNMENT  
 C = FOREIGN PATENT(S) GRANTED K = UNDER EVALUATION/TESTING K = LICENSE TERMINATED  
 D = NEGOTIATING WITH POTENTIAL LICENSEE H = US PATENT APPLICATION WILL NOT BE FILED L = UNIVERSITY RIGHTS RELINQUISHED  
 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE



PATENT ACTIVITY REPORT

ID #: (1-5)	01553
INSTITUTION: (30-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: ISOTOPICALLY LABELED VITAMIN D DERIVATIVES & PROCESSES FOR PREPARING SAME (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 05/21/79 (148-153)	DHHS INVENTION REPORT DATE: 08/26/80 (154-159)
DELUCA, H. SCHNOES, H. ET AL	U.S. PATENT APPLICATION SERIAL NUMBER: 041080 (171-178)	DHHS GRANT/AWARD NUMBER(S): AM14881 (179-223) DE07031
	U.S. PATENT NUMBER: 4269777 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 5/26/81 (233-238)	DHHS NUMBER: G-277-80 (239-250)

LICENSEE(S) <sup>1</sup> (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES* BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES* BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (IN \$000) (66-70)	COM- MENT (71)
UPJOHN	7/1/73		A	0000		0000	00000	0000	00000	
HOFFMAN LAROCHE (US)	10/1/75		A	0000		0000	00000	0000	00000	2
ROUSSEL UCLAF	11/1/71		A	0000		0000	00000	0000	00000	2B
DIAMOND SHAMROCK	11/1/76		A	0000		0000	00000	0000	00000	
Hoffmann-La Roche (Entity)	9/1/77		A							
U.S. Government	8/26/80		A							
Attari Labs	11/1/78		A							

**CONFIDENTIAL**

B- Canada  
Israel  
France  
Greece  
It. Brit.  
Germany  
Japan

\* 'GROSS SALES' SHOULD BE INTERPRETED AS THE WHOLESALE REVENUES OF THE LICENSEE.  
 1 LIST ADDRESSES AND TELEPHONE NUMBERS ON THE BACK OF THIS PAGE.  
 2 COMMENTS CODES (SEE BELOW): STATUS OF DEVELOPMENT AND CURRENT USE (INCLUDING FOREIGN PATENTS)  
 A = DROPPED I = US PATENT APPLICATION PENDING J = LICENSEE AWAITING FDA APPROVAL  
 B = FOREIGN PATENT(S) APPLIED FOR II = US PATENT APPLICATION REJECTED LICENSEE K = LICENSEE TO GOVERNMENT  
 C = FOREIGN PATENT(S) GRANTED III = UNDER EVALUATION/TESTING L = LICENSE TERMINATED  
 D = NEGOTIATING WITH POTENTIAL LICENSEE H = US PATENT APPLICATION WILL NOT BE FILED M = UNIVERSITY RIGHTS RELINQUISHED  
 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

PATENT ACTIVITY REPORT

ID #: (1-5)	01562
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: RODENTICIDE (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 06/09/75 (148-153)	DHHS INVENTION REPORT DATE: 11/10/75 (154-159)
DELUCA, H. SCHNOES, H. ET AL	U.S. PATENT APPLICATION SERIAL NUMBER: 584900 (171-173)	DHHS GRANT/AWARD NUMBER(S): AN14881 (179-223)
	U.S. PATENT NUMBER: 4035493 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 07/12/77 (233-238)	DHHS NUMBER: G-205-75 (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES* BY LICENSEE PER YEAR (IN \$000) (53-56)	GROSS SALES* BY LICENSEE PER YEAR (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE CUR. YR. (IN \$000) (62-65)	TOTAL GROSS ROYALTY BY LICENSEE TO DATE (IN \$000) (66-70)	COM- MENT (71)
HOFFMAN LAROCHE (US)	10/1/75		A	0000		0000	00000	0000	00000	B
LEO	11/1/74		A	0000		0000	00000	0000	00000	B
CHUGAI	11/1/75		A	0000		0000	00000	0000	00000	B
ROUSSEL UCLAF	11/1/71		A	0000		0000	00000	0000	00000	B
REVLON	6/1/80		A	0000		0000	00000	0000	00000	
DIAMOND SHAMROCK	11/1/76		A	0000		0000	00000	0000	00000	
DR JOHN DIAMOND SHAMROCK			A	0000		0000	00000	0000	00000	
Hoffmann La Roche (Switz)	9/1/77		A							
Leva Ltd	8/1/79		A							
U.S. Government	1/12/76		A							

B - Denmark  
C - Canada  
Int. Brit.

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 A = DROPPED  
 B = FOREIGN PATENT(S) APPLIED FOR  
 C = FOREIGN PATENT(S) GRANTED  
 D = NEGOTIATING WITH POTENTIAL LICENSEE  
 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE  
 I = LICENSEE AWAITING FDA APPROVAL  
 J = LICENSEE TO GOVERNMENT  
 K = LICENSE TERMINATED  
 L = UNIVERSITY RIGHTS RELINQUISHED  
 R = US PATENT APPLICATION PENDING  
 S = US PATENT APPLICATION REJECTED LICENSEE  
 T = UNDER EVALUATION/TESTING  
 W = US PATENT APPLICATION WILL NOT BE FILED

PATENT ACTIVITY REPORT

IO #: (1-5)	
INSTITUTION: (80-99)	<i>U. of Wisconsin</i>
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	<i>12/1/68</i>
REPORT PREPARER:	<i>WARF</i>
PERIOD COVERED:	<i>10/1/80 TO 9/30/81</i>
INSTITUTION TYPE:	<i>University</i>

INVENTION: (6-79) <i>23,25-Dihydroxyvitamin D<sub>3</sub></i>	
INVENTOR(S): (100-147)  <i>De Luca, H. Schroer, H. ET AL</i>	U.S. PATENT APPLICATION FILING DATE: (148-153) <i>9/22/80</i>
	DHHS INVENTION REPORT DATE: (154-159) <i>5/26/81</i>
	U.S. PATENT APPLICATION SERIAL NUMBER: (171-173) <i>189481</i>
	DHHS GRANT/AWARD NUMBER(S): (179-223) <i>AM14861</i>
U.S. PATENT NUMBER: (224-232)	(FOR DHHS OFFICE USE ONLY)
U.S. PATENT DATE OF ISSUE: (233-239)	DHHS NUMBER: (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREE- MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYAL. BY LICENSER CUR. YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN \$000) (66-70)	COM- MENT (71)
<i>U.S. Government</i>	<i>6/1/81</i>		<i>A</i>							<i>E</i>
<i>Roussel</i>	<i>11/1/71</i>		<i>A</i>							
<i>Upjohn</i>	<i>7/1/73</i>		<i>A</i>							
<i>Hoffmann-La Roche (US)</i>	<i>10/1/75</i>		<i>A</i>							<i>B - At. Return</i>

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 A = DROPPED E = US PATENT APPLICATION PENDING I = LICENSEE AWAITING FDA APPROVAL  
 B = FOREIGN PATENT(S) APPLIED FOR F = US PATENT APPLICATION REJECTED LICENSEE J = LICENSEE TO GOVERNMENT  
 C = FOREIGN PATENT(S) GRANTED G = UNDER EVALUATION/TESTING K = LICENSE TERMINATED  
 D = NEGOTIATING WITH POTENTIAL LICENSEE H = US PATENT APPLICATION WILL NOT BE FILED L = UNIVERSITY RIGHTS RELINQUISHED  
 3. LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

PATENT ACTIVITY REPORT

ID #: (1-5)

INSTITUTION: (80-99) *U. of Wisconsin*

DHHS IPA NUMBER: (160-164)

DATE DHHS IPA SIGNED: (165-170) *12/1/68*

REPORT PREPARER: *WARF*

PERIOD COVERED: *10/1/80 TO 9/30/81*

INSTITUTION TYPE: *University*

INVENTION: *Vitamin D Lactone Derivative and Process for Preparing Same*  
(6-79)

INVENTOR(S): (100-147) *Dotuca, H. Schless, H. ET AL*

U.S. PATENT APPLICATION FILING DATE: (148-153) *7/18/80*

U.S. PATENT APPLICATION SERIAL NUMBER: (171-178) *170 228*

U.S. PATENT NUMBER: (224-232)

U.S. PATENT DATE OF ISSUE: (233-238)

DHHS INVENTION REPORT DATE: (154-159) *1/19/81*

DHHS GRANT/AWARD NUMBER(S): (179-223) *AM 14881*

(FOR DHHS OFFICE USE ONLY)

DHHS NUMBER: (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (IN \$000) (66-70)	COMMENT (71)
<i>U.S. Government</i>	<i>1/15/81</i>		<i>A</i>							<i>E</i>
<i>Roussel</i>	<i>11/1/71</i>		<i>A</i>							
<i>Upjohn</i>	<i>7/1/73</i>		<i>A</i>							
<i>Hoffmann-La Roche (US)</i>	<i>10/1/75</i>		<i>A</i>							

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 0 = NOT PROVIDED; 1 = US PATENT APPLICATION PENDING; I = LICENSEE AWAITING FDA APPROVAL  
 1 = FOREIGN PATENT(S) APPLIED FOR; 2 = US PATENT APPLICATION REJECTED LICENSEE; J = LICENSEE TO GOVERNMENT  
 2 = FOREIGN PATENT(S) GRANTED; 3 = UNDER EVALUATION/TESTING; K = LICENSEE TERMINATED  
 3 = NEGOTIATING WITH POTENTIAL LICENSEE; 4 = US PATENT APPLICATION WILL NOT BE FILED; L = UNIVERSITY RIGHTS RELINQUISHED  
 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

PATENT ACTIVITY REPORT

IS #: (1-5)  
 INSTITUTION: (80-99) *U. of Wisconsin*  
 DHHS IPA NUMBER: (150-164)  
 DATE DHHS IPA SIGNED: (165-170) *12/1/68*  
 REPORT PREPARER: *WARF*  
 PERIOD COVERED: *10/1/80 TO 9/30/81*  
 INSTITUTION TYPE: *University*

INVENTION: (6-79) *Process for Preparing Vitamin D-Lactones*  
 INVENTOR(S): (100-147) *Redden, H. Schwes, H. ET AL*  
 U.S. PATENT APPLICATION FILING DATE: (148-153) *1/26/81*  
 U.S. PATENT APPLICATION SERIAL NUMBER: (171-178) *228486*  
 U.S. PATENT NUMBER: (224-232)  
 U.S. PATENT DATE OF ISSUE: (233-238)  
 DHHS INVENTION REPORT DATE: (154-159) *5/4/81*  
 DHHS GRANT/AWARD NUMBER(S): (179-223) *AM 14881*  
 (FOR DHHS OFFICE USE ONLY)  
 DHHS NUMBER: (239-250)

LICENSEE(S) (8-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES TO DATE (IN \$000) (66-70)	COM- MENT (71)
<i>U.S. Government</i>	<i>1/15/81</i>		<i>A</i>							<i>E</i>
<i>Roussel</i>	<i>11/1/71</i>		<i>A</i>							
<i>Upjohn</i>	<i>7/1/73</i>		<i>A</i>							
<i>Hoffmann-La Roche (US)</i>	<i>10/1/75</i>		<i>A</i>							

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 C = FOREIGN PATENT(S) GRANTED  
 D = UNDER EVALUATION/TESTING  
 E = NEGOTIATING WITH POTENTIAL LICENSEE  
 F = US PATENT APPLICATION PENDING  
 G = US PATENT APPLICATION REJECTED  
 H = US PATENT APPLICATION WILL NOT BE FILED  
 I = LICENSEE AWAITING FDA APPROVAL  
 J = LICENSEE TO GOVERNMENT  
 K = LICENSEE TERMINATED  
 L = UNIVERSITY RIGHTS RELINQUISHED  
 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

PATENT ACTIVITY REPORT

ID #: (1-5)  
 INSTITUTION: (80-99) *U. of Wisconsin*  
 DHHS IPA NUMBER: (160-164)  
 DATE DHHS IPA SIGNED: (165-170) *12/1/68*  
 REPORT PREPARER: *WARF*  
 PERIOD COVERED: *10/1/80 TO 9/30/81*  
 INSTITUTION TYPE: *University*

INVENTION: (6-79) *Process for Preparing 1-Hydroxylated Vitamin D Compounds from 5,6-Trans-Vitamin D Compounds*  
 INVENTOR(S): (100-147) *De Luca, H. Schnoes, H. ET AL*  
 U.S. PATENT APPLICATION FILING DATE: (148-153) *9/10/79*  
 U.S. PATENT APPLICATION SERIAL NUMBER: (171-178) *073 840*  
 U.S. PATENT NUMBER: (224-232) *4265822*  
 U.S. PATENT DATE OF ISSUE: (233-238) *5/5/81*  
 DHHS INVENTION REPORT DATE: (154-159) *1/19/81*  
 DHHS GRANT/AWARD NUMBER(S): (179-223) *AM 14881*  
 (FOR DHHS OFFICE USE ONLY)  
 DHHS NUMBER: (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYAL. BY LICENSER CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN \$000) (66-70)	COM- MENT (71)
<i>U.S. Government</i>	<i>1/15/81</i>		<i>A</i>							<i>Great Britain Ireland Japan France Germany Switzerland</i>
<i>Roussel</i>	<i>11/1/71</i>		<i>A</i>							
<i>Ziggo</i>	<i>7/1/73</i>		<i>A</i>							
<i>Hoffmann-La Roche (US)</i>	<i>10/1/75</i>		<i>A</i>							
<i>Hoffmann-La Roche (Switz)</i>	<i>9/1/77</i>		<i>A</i>							
<i>Les</i>	<i>11/1/74</i>		<i>A</i>							
<i>Chugai</i>	<i>11/1/75</i>		<i>A</i>							
<i>Leva</i>	<i>8/1/79</i>		<i>A</i>							
<i>Attoch Date</i>	<i>1/1/79</i>		<i>A</i>							
<i>Redon</i>	<i>6/1/80</i>		<i>A</i>							

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 2 COMMENTS CODES (SEE BELOW): STATUS OF DEVELOPMENT AND CURRENT USE (INCLUDING FOREIGN PATENTS)  
 D = DROPPED  
 C = FOREIGN PATENT(S) APPLIED FOR  
 G = FOREIGN PATENT(S) GRANTED  
 O = NEGOTIATING WITH POTENTIAL LICENSEE  
 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE  
 I = US PATENT APPLICATION PENDING  
 J = US PATENT APPLICATION REJECTED LICENSEE  
 K = UNDER EVALUATION/TESTING  
 L = US PATENT APPLICATION WILL NOT BE FILED  
 M = LICENSEE AWAITING FDA APPROVAL  
 N = LICENSEE TO GOVERNMENT  
 O = LICENSEE TERMINATED  
 P = UNIVERSITY RIGHTS RELINQUISHED

PATENT ACTIVITY REPORT

IC #: (1-5)	
INSTITUTION: (80-99)	<i>U of Wisconsin</i>
DHHS IPA NUMBER: (150-164)	
DATE DHHS IPA SIGNED: (165-170)	<i>12/1/68</i>
REPORT PREPARER:	<i>WARF</i>
PERIOD COVERED:	<i>10/1/80 TO 9/30/81</i>
INSTITUTION TYPE:	<i>University</i>

INVENTION: (6-79) <i>Activated Vitamin D Rodenticides</i>		
INVENTOR(S): (100-147) <i>De Luca, F. Schroes, H. ET AL</i>	U.S. PATENT APPLICATION FILING DATE: (148-153) <i>10/9/79</i>	DHHS INVENTION REPORT DATE: (154-159) <i>1/19/81</i>
	U.S. PATENT APPLICATION SERIAL NUMBER: (171-178) <i>083023</i>	DHHS GRANT/AWARD NUMBER(S): (179-223) <i>AM 14881</i>
	U.S. PATENT NUMBER: (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: (233-238)	DHHS NUMBER: (239-250)

LICENSEE(S) <sup>1</sup> (8-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (IN \$000) (66-70)	COM- MENT (71)
<i>U.S. Government</i>	<i>1/15/81</i>		<i>A</i>							<i>E B-Canada</i>

**CONFIDENTIAL**

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 A = DROPPED F = US PATENT APPLICATION PENDING I = LICENSEE AWAITING FDA APPROVAL  
 B = FOREIGN PATENT(S) APPLIED FOR R = US PATENT APPLICATION REJECTED LICENSEE J = LICENSEE TO GOVERNMENT  
 C = FOREIGN PATENT(S) GRANTED S = UNDER EVALUATION/TESTING K = LICENSE TERMINATED  
 D = NEGOTIATING WITH POTENTIAL LICENSEE H = US PATENT APPLICATION WILL NOT BE FILED L = UNIVERSITY RIGHTS RELINQUISHED  
 3. LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

FATENT ACTIVITY REPORT

IO #: (1-5)	
INSTITUTION: (80-99)	<i>U. of Wisconsin</i>
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	<i>12/1/68</i>
REPORT PREPARER:	<i>WARF</i>
PERIOD COVERED:	<i>10/1/60 to 9/30/81</i>
INSTITUTION TYPE:	<i>University</i>

INVENTION: <i>Vitamin D Compounds Isotopically Substituted at Carbon 6 and Process for their Preparation</i>		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: (148-153)	DHHS INVENTION REPORT DATE: (154-159)
<i>De Luca, H. Schroes, H. ET AL</i>	<i>7/17/80</i>	<i>1/19/81</i>
	U.S. PATENT APPLICATION SERIAL NUMBER: (171-173)	DHHS GRANT/AWARD NUMBER(S): (179-223)
	<i>169567</i>	<i>AM 14881</i>
	U.S. PATENT NUMBER: (224-232)	(FOR DHHS OFFICE USE ONLY)
	<i>4297289</i>	
	U.S. PATENT DATE OF ISSUE: (233-238)	DHHS NUMBER: (239-250)
	<i>10/27/81</i>	

LICENSEE(S) (8-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE - CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE - TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE - CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (IN \$000) (66-70)	COM- MENT (71)
<i>U.S. Government</i>	<i>1/15/81</i>		<i>A</i>							<i>B - Lic. Reinst.</i>

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 B = FOREIGN PATENT(S) APPLIED FOR F = US PATENT APPLICATION REJECTED LICENSEE J = LICENSEE TO GOVERNMENT  
 C = FOREIGN PATENT(S) GRANTED G = UNDER EVALUATION/TESTING K = LICENSEE TERMINATED  
 D = NEGOTIATING WITH POTENTIAL LICENSEE H = US PATENT APPLICATION WILL NOT BE FILED L = UNIVERSITY RIGHTS RELINQUISHED  
 3. LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE



PATENT ACTIVITY REPORT

ID #: (1-5)	01623
INSTITUTION: (90-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: FLUOROVITAMIN "D" COMPOUNDS AND PROCESSES FOR PREPARATION (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 07/26/78 (148-153)	DHHS INVENTION REPORT DATE: 06/11/79 (154-159)
DELUCA, H. SCHMOES, H. ET AL	U.S. PATENT APPLICATION SERIAL NUMBER: 928279 (171-178)	DHHS GRANT/AWARD NUMBER(S): DE0703114881A (179-223) GM002368CH
	U.S. PATENT NUMBER: 4188345 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 02/12/80 (233-238)	DHHS NUMBER: G-204-79 (239-250)

LICENSEE(S) <sup>1</sup> (6-25)	DATE LICENSE AGREE- -MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE <sup>3</sup> (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES* BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES* BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSER CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN \$000) (66-70)	COM- MENT <sup>2</sup> (71)
U.S. Government	6/27/79		A	0000		0000	00000	0000	00000	D B- Australia Canada Israel N. Zealand France Great Britain Ireland Denmark Germany Holland Japan Sweden Switzerland C- Belgium

\* GROSS SALES SHOULD BE INTERPRETED AS THE WHOLESALE REVENUES OF THE LICENSEE.  
<sup>1</sup> LIST ADDRESSES AND TELEPHONE NUMBERS ON THE BACK OF THIS PAGE.  
<sup>2</sup> COMMENTS CODES (SEE BELOW):  
 BB = DEVELOPED  
 C = FOREIGN PATENT(S) APPLIED FOR  
 D = FOREIGN PATENT(S) GRANTED  
 E = NEGOTIATING WITH POTENTIAL LICENSEE  
 F = US PATENT APPLICATION PENDING  
 G = US PATENT APPLICATION REJECTED  
 H = UNDER EVALUATION/TESTING  
 I = US PATENT APPLICATION WILL NOT BE FILED  
 J = LICENSES AWAITING FDA APPROVAL  
 K = LICENSES TO GOVERNMENT  
 L = LICENSES TERMINATED  
 M = UNIVERSITY RIGHTS RELINQUISHED  
<sup>3</sup> LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

PATENT ACTIVITY REPORT

ID #: (1-5)	01624
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/69
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: FLUOROVITAMIN "D" COMPOUNDS AND PROCESSES FOR PREPARATION (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 08/06/79 (148-153)	DHHS INVENTION REPORT DATE: 06/11/79 (154-159)
DELUCA, H. SCHNOES, H. ET AL	U.S. PATENT APPLICATION SERIAL NUMBER: 064209 (171-173)	DHHS GRANT/AWARD NUMBER(S): DE0703114801A (179-223) GM002368CH
	U.S. PATENT NUMBER: 4188345 (224-232) 7263214	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 02/12/80 (233-238)	DHHS NUMBER: G-204-79 (239-250)

1 LICENSEE(S) (6-25)	DATE LICENSE AGREE- -MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	3 LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYAL BY LICENSER CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN \$000) (66-70)	2 COM- MENT (71)
U.S. Government	6/27/79		A	0000		0000	00000	0000	00000	0 B-Australia Canada Israel N. Zealand Japan UK Britain Ireland Denmark Germany Holland Japan Sweden Switz C-Belgium

\* 'GROSS SALES' SHOULD BE INTERPRETED AS THE WHOLESALE REVENUES OF THE LICENSEE.  
 1 LIST ADDRESSES AND TELEPHONE NUMBERS ON THE BACK OF THIS PAGE.  
 2 COMMENTS CODES (SEE BELOW):  
 A = DROPPED  
 B = FOREIGN PATENT(S) APPLIED FOR  
 C = FOREIGN PATENT(S) GRANTED  
 D = NEGOTIATING WITH POTENTIAL LICENSEE  
 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE  
 STATUS OF DEVELOPMENT AND CURRENT USE (INCLUDING FOREIGN PATENTS)  
 E = US PATENT APPLICATION PENDING  
 F = US PATENT APPLICATION REJECTED LICENSEE  
 G = UNDER EVALUATION/TESTING  
 H = US PATENT APPLICATION WILL NOT BE FILED  
 I = LICENSEE AWAITING FDA APPROVAL  
 J = LICENSEE TO GOVERNMENT  
 K = LICENSEE TERMINATED  
 L = UNIVERSITY RIGHTS RELINQUISHED

PATENT ACTIVITY REPORT

ID #: (1-5)	01625
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: FLUOROVITAMIN "D" COMPOUNDS AND PROCESSES FOR PREPARATION (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 08/06/79 (148-153)	DHHS INVENTION REPORT DATE: 06/11/79 (154-159)
DELUCA, H. SCHNOES, H. ET AL	U.S. PATENT APPLICATION SERIAL NUMBER: 064210 (171-179)	DHHS GRANT/AWARD NUMBER(S): DE0703114881A (179-223) GN002368CH
	U.S. PATENT NUMBER: 4229357 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 10/21/80 (233-238)	DHHS NUMBER: G-204-79 (239-250)

LICENSEE(S) <sup>1</sup> (8-25)	DATE LICENSEE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES* BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES* BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSER CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN \$000) (66-70)	COM- MENT (71)
U.S. Government	6/27/79		A	0000		0000	00000	0000	00000	D B-Australia Canada Israel N. Zealand France St. Britain Ireland Denmark Germany Holland Japan Sweden Switz C-Belgium

\* 'GROSS SALES' SHOULD BE INTERPRETED AS THE WHOLESALE REVENUES OF THE LICENSEE.  
 1 LIST ADDRESSES AND TELEPHONE NUMBERS ON THE BACK OF THIS PAGE.  
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 3 LICENSE TYPE CODES; A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

PATENT ACTIVITY REPORT

IO #: (1-5)	01626
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (150-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/50 TO 9/31/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: FLUOROVITAMIN "D" COMPOUNDS AND PROCESSES FOR PREPARATION (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 08/06/79 (148-153)	DHHS INVENTION REPORT DATE: 06/11/79 (154-159)
DELUCA, H. SCHNOES, H. ET AL	U.S. PATENT APPLICATION SERIAL NUMBER: 064211 (171-178)	DHHS GRANT/AWARD NUMBER(S): DE0703114881A (179-223) GM002368CH
	U.S. PATENT NUMBER: 4229358 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 10/21/80 (233-238)	DHHS NUMBER: F-204-79 (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES* BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES* BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSER CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN \$000) (66-70)	COM- MENT (71)
U.S. Government	6/27/79		A	0000		0000	00000	0000	00000	D B-Australia Canada Israel N. Zealand Singapore UK Britain Ireland Denmark Germany Holland Japan Sweden Switzerland C-Belgium

\* 'GROSS SALES' SHOULD BE INTERPRETED AS THE WHOLESALE REVENUES OF THE LICENSEE.  
 1 LIST ADDRESSES AND TELEPHONE NUMBERS ON THE BACK OF THIS PAGE.  
 2 COMMENTS CODES (SEE BELOW): STATUS OF DEVELOPMENT AND CURRENT USE (INCLUDING FOREIGN PATENTS)  
 D = DROPPED  
 F = FOREIGN PATENT(S) APPLIED FOR  
 G = FOREIGN PATENT(S) GRANTED  
 H = NEGOTIATING WITH POTENTIAL LICENSEE  
 I = LICENSING AWAITING FDA APPROVAL  
 J = LICENSING TO GOVERNMENT  
 K = LICENSING TERMINATED  
 L = UNIVERSITY RIGHTS RELINQUISHED  
 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

PATENT ACTIVITY REPORT

ID #: (1-5)	01627
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: FLUOROVITAMIN "D" COMPOUNDS AND PROCESSES FOR PREPARATION (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 08/06/79 (148-153)	DHHS INVENTION REPORT DATE: 06/11/79 (154-159)
DELUCA, H. SCHNOES, H. ET AL	U.S. PATENT APPLICATION SERIAL NUMBER: 064212 (171-173)	DHHS GRANT/AWARD NUMBER(S): DE0703114881A (179-223) GM002368CH
	U.S. PATENT NUMBER: 4229787 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 10/07/80 (233-238)	DHHS NUMBER: G-204-79 (239-250)

LICENSEE(S) <sup>1</sup> (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES* BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES* BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSER CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN \$000) (66-70)	COM-MENT <sup>2</sup> (71)
U.S. Government	6/27/79		A	0000		0000	00000	0000	00000	D B-Australia Canada Israel N Zealand France UK Britain Ireland Denmark Germany Holland Japan Sweden Switzerland C-Belgium

\* 'GROSS SALES' SHOULD BE INTERPRETED AS THE WHOLESALE REVENUES OF THE LICENSEE.  
<sup>1</sup> LIST ADDRESSES AND TELEPHONE NUMBERS ON THE BACK OF THIS PAGE.  
<sup>2</sup> COMMENTS CODES (SEE BELOW): STATUS OF DEVELOPMENT AND CURRENT USE (INCLUDING FOREIGN PATENTS)  
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 I = LICENSEE AWAITING FDA APPROVAL  
 J = LICENSEE TO GOVERNMENT  
 K = LICENSEE TERMINATED  
 L = UNIVERSITY RIGHTS RELINQUISHED  
<sup>3</sup> LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

PATENT ACTIVITY REPORT

ID #: (1-5)	01628
INSTITUTION: (80-99)	U OF WISCONSIN
DHMS IPA NUMBER: (160-164)	
DATE DHMS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: FLUOROVITAMIN "D" COMPOUNDS AND PROCESSES FOR PREPARATION (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 08/06/79 (148-153)	DHMS INVENTION REPORT DATE: 06/11/79 (154-159)
DELUCA, H. SCHNOES, H. ET AL	U.S. PATENT APPLICATION SERIAL NUMBER: 064213 (171-178)	DHMS GRANT/AWARD NUMBER(S): DE0703114881A (179-223) GM002368CH
	U.S. PATENT NUMBER: 4230627 (224-232)	(FOR DHMS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 10/28/80 (233-238)	DHMS NUMBER: G-204-79 (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTY BY LICENSEE TO DATE (IN \$000) (66-78)	COM- MENT (79)
U.S. Government	6/27/79		A	0000		0000	00000	0000	00000	D B-Australia Canada France Germany Italy Japan Netherlands Sweden Switzerland C-Belgium

\* 'GROSS SALES' SHOULD BE INTERPRETED AS THE WHOLESALE REVENUES OF THE LICENSEE.  
 1 LIST ADDRESSES AND TELEPHONE NUMBERS ON THE BACK OF THIS PAGE.  
 2 COMMENTS CODES (SEE BELOW): STATUS OF DEVELOPMENT AND CURRENT USE (INCLUDING FOREIGN PATENTS)  
 A = DROPPED  
 B = FOREIGN PATENT(S) APPLIED FOR  
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 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE  
 I = LICENSEE AWAITING FDA APPROVAL  
 J = LICENSEE TO GOVERNMENT  
 K = LICENSEE TERMINATED  
 L = UNIVERSITY RIGHTS RELINQUISHED

PATENT ACTIVITY REPORT

ID #: (1-5)	01629
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: FLUOROVITAMIN "D" COMPOUNDS AND PROCESSES FOR PREPARATION (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 08/06/79 (148-153)	DHHS INVENTION REPORT DATE: 06/11/79 (154-159)
DELUCA, H. SCHNOES, H. ET AL	U.S. PATENT APPLICATION SERIAL NUMBER: 064208 (171-178)	DHHS GRANT/AWARD NUMBER(S): DE0703114881A (179-223) GN002368CH
	U.S. PATENT NUMBER: 4224230 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 09/23/80 (233-238)	DHHS NUMBER: G-204-79 (239-250)

LICENSEE(S) (8-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES* BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES* BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (IN \$000) (66-70)	COM- MENT (71)
U.S. Government	6/27/79		A	0000		0000	00000	0000	00000	D B-Australia Canada Israel N. Zealand France UK-Britain Ireland Denmark Germany Netherlands Japan Sweden Switzerland C-Belgium

- \* 'GROSS SALES' SHOULD BE INTERPRETED AS THE WHOLESALE REVENUES OF THE LICENSEE.
- 1 LIST ADDRESSES AND TELEPHONE NUMBERS ON THE BACK OF THIS PAGE.
- 2 COMMENTS CODES (SEE BELOW): STATUS OF DEVELOPMENT AND CURRENT USE (INCLUDING FOREIGN PATENTS)
- |   |   |                                    |
|---|---|------------------------------------|
| A = DROPPED                             | E = US PATENT APPLICATION PENDING           | I = LICENSEE AWAITING FDA APPROVAL |
| B = FOREIGN PATENT(S) APPLIED FOR       | F = US PATENT APPLICATION REJECTED LICENSEE | J = LICENSEE TO GOVERNMENT         |
| C = FOREIGN PATENT(S) GRANTED           | G = UNDER EVALUATION/TESTING                | K = LICENSE TERMINATED             |
| D = NEGOTIATING WITH POTENTIAL LICENSEE | H = US PATENT APPLICATION WILL NOT BE FILED | L = UNIVERSITY RIGHTS RELINQUISHED |
- 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

PATENT ACTIVITY REPORT

ID #: (1-3)	
INSTITUTION: (80-99)	<i>U. of Wisconsin</i>
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	<i>12/1/68</i>
REPORT PREPARER:	<i>WARF</i>
PERIOD COVERED:	<i>10/1/80 TO 9/30/81</i>
INSTITUTION TYPE:	<i>University</i>

INVENTION: (6-79) <i>24,24-Reflexo-19, 25-Dihydroxy cholic acid ester</i>		
INVENTOR(S): (100-147) <i>De Luca, H. Schloss, H. ET AL</i>	U.S. PATENT APPLICATION FILING DATE: (148-153) <i>3/28/79</i>	DHHS INVENTION REPORT DATE: (154-159) <i>12/4/79</i>
	U.S. PATENT APPLICATION SERIAL NUMBER: (171-178) <i>024848</i>	DHHS GRANT/AWARD NUMBER(S): (179-223) <i>8020 INT 7605993 AM 14881</i>
	U.S. PATENT NUMBER: (224-232) <i>4201881</i>	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: (233-238) <i>5/6/80</i>	DHHS NUMBER: (239-250)

1 LICENSEE(S) (8-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	2 LICENSE NUMBER (32-41)	3 LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (IN \$000) (66-70)	4 COM- MENT (71)
<i>U.S. Government</i>	<i>12/5/79</i>		<i>A</i>							<i>D B - Australia Canada Israel New Zealand UK, Britain Ireland France Italy Denmark N. Ger. Holland Japan Switzerland Sweden C - Belgium</i>

\* 'GROSS SALES' SHOULD BE INTERPRETED AS THE WHOLESALE REVENUES OF THE LICENSEE.  
 1 LIST ADDRESSES AND TELEPHONE NUMBERS ON THE BACK OF THIS PAGE.  
 2 COMMENTS CODES (SEE BELOW):  
 A = DROPPED  
 B = FOREIGN PATENT(S) APPLIED FOR  
 C = FOREIGN PATENT(S) GRANTED  
 D = NEGOTIATING WITH POTENTIAL LICENSEE  
 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE  
 \* STATUS OF DEVELOPMENT AND CURRENT USE (INCLUDING FOREIGN PATENTS)  
 # = US PATENT APPLICATION PENDING  
 = US PATENT APPLICATION REJECTED LICENSEE  
 = UNDER EVALUATION/TESTING  
 = US PATENT APPLICATION WILL NOT BE FILED  
 I = LICENSEE AWAITING FDA APPROVAL  
 J = LICENSEE TO GOVERNMENT  
 K = LICENSEE TERMINATED  
 L = UNIVERSITY RIGHTS RELINQUISHED



PATENT ACTIVITY REPORT

ID #: (1-5)	01488
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/88
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: 24,24-DIFLUORO-1 ALPHA 25-DIHYDROXYCHOLECALCIFEROL (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 08/06/79 (148-153)	DHHS INVENTION REPORT DATE: 12/04/79 (154-159)
DELUCA, H. SCHNOES, H. ET AL	U.S. PATENT APPLICATION SERIAL NUMBER: 064254 (171-178)	DHHS GRANT/AWARD NUMBER(S): 8020INT7605793 (179-223) AM14881
	U.S. PATENT NUMBER: <del>4221881</del> (224-232) 4226788	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 10/7/80 (233-238) 05/06/80	DHHS NUMBER: G-32-80 (239-250)

1 LICENSEE(S) (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	3 LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE BY CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (IN \$000) (66-80)	2 COM- MENT (71)
U.S. Government	12/5/79		A	0000		0000	00000	0000	00000	D B - Australia Canada Israel N. Zealand N. Brit. Ireland France Italy Denmark Sw Holland Japan Sweden Switz C - Belgium

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 2 COMMENTS CODES (SEE BELOW): STATUS OF DEVELOPMENT AND CURRENT USE (INCLUDING FOREIGN PATENTS)  
 A = DROPPED E = US PATENT APPLICATION PENDING I = LICENSEE AWAITING FDA APPROVAL  
 B = FOREIGN PATENT(S) APPLIED FOR F = US PATENT APPLICATION REJECTED LICENSEE J = LICENSEE TO GOVERNMENT  
 C = FOREIGN PATENT(S) GRANTED G = UNDER EVALUATION/TESTING K = LICENSE TERMINATED  
 D = NEGOTIATING WITH POTENTIAL LICENSEE H = US PATENT APPLICATION WILL NOT BE FILED L = UNIVERSITY RIGHTS RELINQUISHED  
 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

PATENT ACTIVITY REPORT

ID #: (1-5)	
INSTITUTION: (80-99)	<i>U. of Wisconsin</i>
DHHS IFA NUMBER: (160-164)	
DATE DHHS IFA SIGNED: (165-170)	<i>12/1/68</i>
REPORT PREPARER:	<i>WARF</i>
PERIOD COVERED:	<i>10/1/80 TO 9/30/81</i>
INSTITUTION TYPE:	<i>University</i>

INVENTION: (6-79) <i>Novel Vitamin D Compound and Process for Preparing Same</i>		
INVENTOR(S): (100-147) <i>De Luca, H. Schroer, H. Tanaka, Y.</i>	U.S. PATENT APPLICATION FILING DATE: (148-153) <i>7/14/80</i>	DHHS INVENTION REPORT DATE: (154-159) <i>1/19/81</i>
	U.S. PATENT APPLICATION SERIAL NUMBER: (171-178) <i>168791</i>	DHHS GRANT/AWARD NUMBER(S): (179-223) <i>AM 14881</i>
	U.S. PATENT NUMBER: (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: (233-238)	DHHS NUMBER: (239-250)

LICENSEE(S) (8-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE PER CURRENT YEAR (IN \$000) (53-56)	GROSS SALES TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE CUR. YR. (IN \$000) (62-65)	TOTAL GROSS ROYALTIES TO DATE (IN \$000) (66-70)	COM-2 MENT (71)
<i>U.S. Government</i>	<i>1/15/81</i>		<i>A</i>							<i>A</i>

\* 'GROSS SALES' SHOULD BE INTERPRETED AS THE WHOLESALE REVENUES OF THE LICENSEE.  
 1 LIST ADDRESSES AND TELEPHONE NUMBERS ON THE BACK OF THIS PAGE.  
 2 COMMENTS CODES (SEE BELOW):  
 O = DOMESTIC PATENT(S) APPLIED FOR  
 F = FOREIGN PATENT(S) APPLIED FOR  
 G = FOREIGN PATENT(S) GRANTED  
 N = NEGOTIATING WITH POTENTIAL LICENSEE  
 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE  
 S = STATUS OF DEVELOPMENT AND CURRENT USE (INCLUDING FOREIGN PATENTS)  
 1 = US PATENT APPLICATION PENDING  
 2 = US PATENT APPLICATION REJECTED LICENSEE UNDER EVALUATION/TESTING  
 3 = US PATENT APPLICATION WILL NOT BE FILED  
 L = LICENSING Awaiting FDA APPROVAL  
 U = LICENSING TO GOVERNMENT  
 K = LICENSING TERMINATED  
 R = UNIVERSITY RIGHTS RELINQUISHED

PATENT ACTIVITY REPORT

ID #1 (1-5)	
INSTITUTION: (80-99)	<i>U. of Wisconsin</i>
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	<i>12/1/68</i>
REPORT PREPARER:	<i>WARF</i>
PERIOD COVERED:	<i>10/1/80 TO 9/30/81</i>
INSTITUTION TYPE:	<i>University</i>

INVENTION: (6-79) <i>Process for Preparing Vitamin D-lectones</i>	
INVENTOR(S): (100-147) <i>Belica, H. Schroer, H. ET AL</i>	U.S. PATENT APPLICATION FILING DATE: (148-153) <i>8/4/80</i>
	DHHS INVENTION REPORT DATE: (154-159) <i>1/19/81</i>
	U.S. PATENT APPLICATION SERIAL NUMBER: (171-178) <i>174944</i>
	DHHS GRANT/AWARD NUMBER(S): (179-223) <i>AM 14881</i>
U.S. PATENT NUMBER: (224-232)	(FOR DHHS OFFICE USE ONLY)
U.S. PATENT DATE OF ISSUE: (233-238)	DHHS NUMBER: (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC 3 TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE* CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE* TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (IN \$000) (66-70)	COM- MENT (71)
<i>U.S. Government</i>	<i>1/15/81</i>		<i>A</i>							<i>A</i>

\* GROSS SALES SHOULD BE INTERPRETED AS THE WHOLESALE REVENUES OF THE LICENSEE.  
 1 LIST ADDRESSES AND TELEPHONE NUMBERS ON THE BACK OF THIS PAGE.  
 2 COMMENTS CODES (SEE BELOW): STATUS OF DEVELOPMENT AND CURRENT USE (INCLUDING FOREIGN PATENTS)  
 D = DEVELOPED PATENT(S) APPLIED FOR E = US PATENT APPLICATION PENDING I = LICENSEE AWAITING FDA APPROVAL  
 G = DEVELOPED PATENT(S) GRANTED F = US PATENT APPLICATION REJECTED LICENSEE J = LICENSEE TO GOVERNMENT  
 O = NEGOTIATING WITH POTENTIAL LICENSEE H = UNDER EVALUATION/TESTING K = LICENSEE TERMINATED  
 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE L = UNIVERSITY RIGHTS RELINQUISHED

PATENT ACTIVITY REPORT

ID #: (1-5)	01544
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (168-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: PROCESS FOR PREPARING 24-FLUORO-25-HYDROXYCHOLECALCIFEROL (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 09/22/80 (148-153)	DHHS INVENTION REPORT DATE: 11/04/80 (154-159)
DELUCA, H. TANAKA, Y. ET AL	U.S. PATENT APPLICATION SERIAL NUMBER: 189513 (171-178)	DHHS GRANT/AWARD NUMBER(S): 14881 (179-223)
	U.S. PATENT NUMBER: (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: (233-238)	DHHS NUMBER: G-60-81 (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES* BY LICENSEE* CURRENT YEAR (IN \$000) (53-56)	GROSS SALES* BY LICENSEE* TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYAL. BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (IN \$000) (66-70)	COM- MENT (71)
U.S. Government	1/15/81		A	0000		0000	00000	0000	00000	E D

- \* 'GROSS SALES' SHOULD BE INTERPRETED AS THE WHOLESALE REVENUES OF THE LICENSEE.
- 1 LIST ADDRESSES AND TELEPHONE NUMBERS ON THE BACK OF THIS PAGE.
- 2 COMMENTS CODES (SEE BELOW): STATUS OF DEVELOPMENT AND CURRENT USE (INCLUDING FOREIGN PATENTS)
- |   |   |                                    |
|---|---|------------------------------------|
| A = DROPPED                             | E = US PATENT APPLICATION PENDING           | I = LICENSEE AWAITING FDA APPROVAL |
| B = FOREIGN PATENT(S) APPLIED FOR       | F = US PATENT APPLICATION REJECTED LICENSEE | J = LICENSEE TO GOVERNMENT         |
| C = FOREIGN PATENT(S) GRANTED           | G = UNDER EVALUATION/TESTING                | K = LICENSE TERMINATED             |
| D = NEGOTIATING WITH POTENTIAL LICENSEE | H = US PATENT APPLICATION WILL NOT BE FILED | L = UNIVERSITY RIGHTS RELINQUISHED |
- 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

PATENT ACTIVITY REPORT

ID #: (1-5)	01543
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: 25-HYDROXY-26-26-26-27-27-27-HEXAPLUOR <sup>o</sup> CHOLECALCIFEROL (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 02/04/80 (148-153)	DHHS INVENTION REPORT DATE: 11/04/80 (154-159)
DELUCA, H. TANAKA, Y. ET AL	U.S. PATENT APPLICATION SERIAL NUMBER: 118149 (171-178)	DHHS GRANT/AWARD NUMBER(S): AM14881 (179-223)
	U.S. PATENT NUMBER: 4245791 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 2/3/81 (233-238)	DHHS NUMBER: G-61-81 (239-250)

LICENSEE(S) <sup>1</sup> (6-25)	DATE LICENSE AGREE- MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES* BY LICENSEE <sup>2</sup> CURRENT YEAR (IN \$000) (53-56)	GROSS SALES* BY LICENSEE <sup>2</sup> TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSER CUR. YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN \$000) (66-70)	COM- MENT (71)
U.S. Government	1/15/81		A	0000		0000	00000	0000	00000	D B-Australia N-Zealand I-Ireland F-France UK-Britain I-Ireland I-Ireland K-Korea H-Holland J-Japan S-Switzerland N-Norway C-Belgium

\* 'GROSS SALES' SHOULD BE INTERPRETED AS THE WHOLESALE REVENUES OF THE LICENSEE.  
<sup>1</sup> LIST ADDRESSES AND TELEPHONE NUMBERS ON THE BACK OF THIS PAGE.  
<sup>2</sup> COMMENTS CODES (SEE BELOW): STATUS OF DEVELOPMENT AND CURRENT USE (INCLUDING FOREIGN PATENTS)  
 A = DROPPED E = US PATENT APPLICATION PENDING I = LICENSEE AWAITING FDA APPROVAL  
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 D = NEGOTIATING WITH POTENTIAL LICENSEE H = US PATENT APPLICATION WILL NOT BE FILED L = UNIVERSITY RIGHTS RELINQUISHED  
<sup>3</sup> LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

PATENT ACTIVITY REPORT

ID #: (1-5)	01563
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: DERIVATIVE OF T-2 TOXIN ALPHA ANQUIDINE (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 08/19/77 (148-153)	DHHS INVENTION REPORT DATE: 02/06/76 (154-159)
ELLISON, R. KOTSONIS, F.	U.S. PATENT APPLICATION SERIAL NUMBER: 826067 (171-178)	DHHS GRANT/AWARD NUMBER(S): G066 (179-223)
	U.S. PATENT NUMBER: 4129577 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 12/12/78 (233-238)	DHHS NUMBER: G-29-76 (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (57-61)	GROSS ROYALTY BY LICENSEE CUR YR (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (66-70)	COM-MENT (71)
U.S. Government	2/10/76		A	0000		0000	00000	0000	00000	A

\* 'GROSS SALES' SHOULD BE INTERPRETED AS THE WHOLESALE REVENUES OF THE LICENSEE.

1 LIST ADDRESSES AND TELEPHONE NUMBERS ON THE BACK OF THIS PAGE.

2 COMMENTS CODES (SEE BELOW): STATUS OF DEVELOPMENT AND CURRENT USE (INCLUDING FOREIGN PATENTS)

A = DROPPED  
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 C = FOREIGN PATENT(S) GRANTED  
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 I = US PATENT APPLICATION REJECTED  
 J = UNDER EVALUATION/TESTING  
 K = US PATENT APPLICATION WILL NOT BE FILED  
 L = LICENSEE AWAITING FDA APPROVAL  
 M = LICENSEE TO GOVERNMENT  
 N = LICENSEE TERMINATED  
 O = UNIVERSITY RIGHTS RELINQUISHED

3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

PATENT ACTIVITY REPORT

IO #: (1-5)	01577
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: METHOD FOR INDUCING EPILEPTIFORM ACTIVITY (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 09/10/79 (148-153)	DHHS INVENTION REPORT DATE: 11/06/80 (154-159)
FARIELLO, R.	U.S. PATENT APPLICATION SERIAL NUMBER: 074049 (171-173)	DHHS GRANT/AWARD NUMBER(S): RR05435 (179-223)
	U.S. PATENT NUMBER: 4255448 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 3/10/81 (233-238)	DHHS NUMBER: G-27-81 (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES* BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES* BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (IN \$000) (66-70)	COM- MENT (71)
U.S. Government	11/13/80		A	0000		0000	00000	0000	00000	

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 D = NEGOTIATING WITH POTENTIAL LICENSEE H = US PATENT APPLICATION WILL NOT BE FILED L = UNIVERSITY RIGHTS RELINQUISHED  
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PATENT ACTIVITY REPORT

IO #: (1-5)	01588
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: ELECTROMAGNETIC FLOWMETERS FOR BLOOD OR OTHER CONDUCTIVE FLUIDS (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 02/08/71 (148-153)	DHHS INVENTION REPORT DATE: 09/29/71 (154-159)
FOLTS, J.	U.S. PATENT APPLICATION SERIAL NUMBER: 113542 (171-178)	DHHS GRANT/AWARD NUMBER(S): HE97754 (179-223)
	U.S. PATENT NUMBER: 3739640 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 06/19/73 (233-238)	DHHS NUMBER: G-84-71 (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSER CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN \$000) (66-70)	COM-MENT (71)
<i>In vivo Metric Systems U.S. Government</i>	<i>11/1/80 6/30/71</i>		<i>A A</i>	<i>0000</i>		<i>0000</i>	<i>00000</i>	<i>0000</i>	<i>00000</i>	<i>A</i>

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*Total gross royalties \$389.00*

\* "GROSS SALES" SHOULD BE INTERPRETED AS THE WHOLESALE REVENUES OF THE LICENSEE.  
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 F = US PATENT APPLICATION REJECTED LICENSE  
 G = UNDER EVALUATION/TESTING  
 H = US PATENT APPLICATION WILL NOT BE FILED  
 I = LICENSEE LAUNCHING FDA APPROVAL  
 J = LICENSEE TO GOVERNMENT  
 K = LICENSE TERMINATED  
 L = UNIVERSITY RIGHTS RELINQUISHED

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PATENT ACTIVITY REPORT

ID #: (1-5)	01587
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: THE PREP. & USE OF EUROPIUM & PRASEODYMIUM CHELATES OF 3-TRI-FLUOR-ACETYL... (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 11/03/71 (148-153)	DHHS INVENTION REPORT DATE: 09/10/71 (154-159)
GOERING, H. EIKENBERRY, J. KOERNER, G.	U.S. PATENT APPLICATION SERIAL NUMBER: 195429 (171-178)	DHHS GRANT/AWARD NUMBER(S): F01DM41571 (179-223)
	U.S. PATENT NUMBER: 3789060 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 06/19/73 (233-238)	DHHS NUMBER: G-118-72 (239-250)

LICENSEE(S) (8-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSER CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN \$000) (66-70)	COM- MENT (71)
REGIS CHEMICAL CO.	5/1/72		A	0000		0000	00000	0000	00000	
ALDRICH CHEMICAL INC	7/1/78		A	0000		0000	00000	0000	00000	
WILLOW BROOK LABS	1/29/74		A	0000		0000	00000	0000	00000	K
Thiokol Corporation	11/9/80		A							
U.S. Government	7/17/72		A							

A-Canada

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Total gross royalties \$2,304.00  
Total gross sales \$29,791.79

\* 'GROSS SALES' SHOULD BE INTERPRETED AS THE WHOLESALE REVENUES OF THE LICENSEE.  
 1 LIST ADDRESSES AND TELEPHONE NUMBERS ON THE BACK OF THIS PAGE.  
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 K = LICENSEE TERMINATED  
 L = UNIVERSITY RIGHTS RELINQUISHED  
 M = LICENSEE AWAITING FDA APPROVAL  
 N = LICENSEE TO GOVERNMENT

PATENT ACTIVITY REPORT

ID #: 01508  
(1-3)

INSTITUTION: U OF WISCONSIN  
(80-99)

DHHS IPA NUMBER:  
(160-184)

DATE DHHS IPA SIGNED: 12/01/68  
(165-170)

REPORT PREPARER: WAF

PERIOD COVERED: 10/1/80 TO 9/30/81

INSTITUTION TYPE: UNIVERSITY

INVENTION: FLUORINATED CAMPHOR DERIVATIVES AND EUROPIUM...  
(8-79)

INVENTOR(S):  
(180-147)

U.S. PATENT APPLICATION FILING DATE: 07/02/73  
(148-153)

DHHS INVENTION REPORT DATE: 05/23/74  
(154-159)

GOERING, H.  
EIKENBERRY, J.  
KOERNER, G.

U.S. PATENT APPLICATION SERIAL NUMBER: 375614  
(171-178)

DHHS GRANT/AWARD NUMBER(S): F01GM41571  
(179-223)

U.S. PATENT NUMBER: 3915641  
(224-232)

(FOR DHHS OFFICE USE ONLY)

U.S. PATENT DATE OF ISSUE: 10/28/75  
(233-238)

DHHS NUMBER: G-118-72  
(239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES* BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES* BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSER CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN \$000) (66-70)	COM- MENT (71)
Regis Chemical	5/1/72		A	0000		0000	00000	0000	00000	?
Aldrich Chemical	1/1/78		A							
Therakal Corporation	1/7/80		A							
U.S. Government	5/1/72		A							
Willow Brook Labs	1/29/74		A							K

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Total gross royalties \$2,304.00

\* 'GROSS SALES' SHOULD BE INTERPRETED AS THE WHOLESALE REVENUES OF THE LICENSEE.  
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 L = UNIVERSITY RIGHTS RELINQUISHED

King Chemical Company, 8210 Austin Ave, Austin Ave, Merina 6053 - (312) 967-6000  
Richard Chemical Co, Inc, 940 N. Oak Ave, Yukonville, Pa 53233 - (414) 273-3850  
Market Corporation, P.O. Box 1000, Yonkers, Pa 18940

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PATENT ACTIVITY REPORT

ID #: (1-5)	01630
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: CHEMICAL SYNTHESIS OF INSECT CHEMOSTERILANTS (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 04/03/80 (148-153)	DHHS INVENTION REPORT DATE: 07/02/79 (154-159)
HSIA, M.	U.S. PATENT APPLICATION SERIAL NUMBER: 136799 (171-178)	DHHS GRANT/AWARD NUMBER(S): S07RR070981314 (179-223)
	U.S. PATENT NUMBER: (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: (233-238)	DHHS NUMBER: G-1-80 (239-250)

LICENSEE(S) (6-28)	DATE LICENSEE AGREEMENT SIGNED (29-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (IN \$000) (66-70)	COM-MENT (71)
Bayes AG	6/11/81		B	0000		0000	00000	0000	00000	E G
U.S. Government	4/21/80		A							B-Cause

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 K = LICENSEE TO GOVERNMENT  
 L = LICENSEE TERMINATED  
 M = UNIVERSITY RIGHTS RELINQUISHED

Specialized Clinical Billing, 5090 Newbury, New York, N.Y. (optimal)

Newbury 301 (Newbury)

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MADE IN U.S.A. / PRINTED

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PATENT ACTIVITY REPORT

ID #: (1-5)	01622
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: PHANTOM MATERIAL AND METHOD (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 10/23/78 (148-153)	DHHS INVENTION REPORT DATE: 04/19/79 (154-159)
MADSEN, E. ZAGZEBSKI, J. ET AL	U.S. PATENT APPLICATION SERIAL NUMBER: 953761 (171-178)	DHHS GRANT/AWARD NUMBER(S): 3P01CA1452003 (179-223)
	U.S. PATENT NUMBER: 4277367 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 7/7/81 (233-239)	DHHS NUMBER: G-153-79 (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES* BY LICENSEE CUR YEAR (IN \$000) (53-56)	GROSS SALES* BY LICENSEE TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (IN \$000) (66-70)	COM- MENT (71)
RADIATION MEAS. INC. <i>U.S. Government</i>	10/01/79 <i>5/14/79</i>		A  A	0000		0000	00000	0000	00000	G  B-Canada

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 H = US PATENT APPLICATION WILL NOT BE FILED  
 I = LICENSEE AWAITING FDA APPROVAL  
 J = LICENSEE TO GOVERNMENT  
 K = LICENSE TERMINATED  
 L = UNIVERSITY RIGHTS RELINQUISHED  
 3. LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

PATENT ACTIVITY REPORT

ID #: 01565  
(1-5)

INSTITUTION: U OF WISCONSIN  
(80-99)

DHHS IPA NUMBER: (160-164)

DATE DHHS IPA SIGNED: 12/01/68  
(165-170)

REPORT PREPARER: WARE

PERIOD COVERED: 10/1/80 TO 9/30/81

INSTITUTION TYPE: UNIVERSITY

INVENTION: PROCESS FOR PREPARING 1 ALPHA, 25-HYDROXYCHOLECALCIFEROL  
(6-79)

INVENTOR(S):  
(100-147)  
MATSUNAGA, I.  
OSHI, K.  
ET AL

U.S. PATENT APPLICATION FILING DATE: 02/12/76  
(148-153)

U.S. PATENT APPLICATION SERIAL NUMBER: 657375  
(171-178)

U.S. PATENT NUMBER: 4022768  
(224-232)

U.S. PATENT DATE OF ISSUE: 05/10/77  
(233-238)

DHHS INVENTION REPORT DATE: 02/19/76  
(154-159)

DHHS GRANT/AWARD NUMBER(S): (179-223)  
(FOR DHHS OFFICE USE ONLY)

DHHS NUMBER: G-35-76  
(239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREE- MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTY TO DATE (IN \$000) (66-70)	COM- MENT (71)
U.S. GOVERNMENT	7/10/76		A	0000		0000	00000	0000	00000	A
HOFFMAN LAROCHE(US)	10/1/75		A	0000		0000	00000	0000	00000	B
ROUSSEL UCLAF	11/1/71		A	0000		0000	00000	0000	00000	B
ABBOTT LABS	1/1/78		A	0000		0000	00000	0000	00000	
DELUCA ET AL				0000		0000	00000	0000	00000	
INVENTIONS SUPRA <i>Hoffmann-La Roche (Switz)</i>	9/1/77		A	0000		0000	00000	0000	00000	

A - *Comment  
Holland  
Switz  
Sweden*

C - *Canada  
Et. Brit.*

CONFIDENTIAL

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D = NEGOTIATING WITH POTENTIAL LICENSEE

3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

STATUS OF DEVELOPMENT AND CURRENT USE (INCLUDING FOREIGN PATENTS)  
 I = US PATENT APPLICATION PENDING  
 J = US PATENT APPLICATION PENDING  
 K = US PATENT APPLICATION PENDING  
 L = UNDER EVALUATION/TESTING  
 M = US PATENT APPLICATION WILL NOT BE FILED  
 N = LICENSEE AWAITING FDA APPROVAL  
 O = LICENSEE TO GOVERNMENT  
 P = LICENSEE TERMINATED  
 Q = UNIVERSITY RIGHTS RELINQUISHED

PATENT ACTIVITY REPORT

ID #: (1-5)	01609
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARP
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: COMPENSATION OF PATIENT THICKNESS VARIATIONS AND DIFFERENTIAL X-RAY... (6-79)		
INVENTOR(S): (100-147)	U. S. PATENT APPLICATION FILING DATE: 12/10/73 (148-153)	DHHS INVENTION REPORT DATE: 01/15/74 (154-159)
MISTRETTA, C. KELCZ, F.	U. S. PATENT APPLICATION SERIAL NUMBER: 423115 (171-178)	DHHS GRANT/AWARD NUMBER(S): 5T01CA0510410 (179-223) 5T01CA0510411
	U. S. PATENT NUMBER: 3854049 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U. S. PATENT DATE OF ISSUE: 12/10/74 (233-238)	DHHS NUMBER: G-12-74 (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREE- -MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES* BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES* BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYAL. BY LICENSER CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN \$000) (66-70)	COM- MENT (71)
U.S. Government	1/17/74		A	0000		0000	00000	0000	00000	

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 C = FOREIGN PATENT(S) GRANTED G = UNDER EVALUATION/TESTING K = LICENSE TERMINATED  
 D = NEGOTIATING WITH POTENTIAL LICENSEE H = US PATENT APPLICATION WILL NOT BE FILED L = UNIVERSITY RIGHTS RELINQUISHED  
 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE



PATENT ACTIVITY REPORT

ID #: (1-5)	01547
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/50 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: DIFFERENTIAL X-RAY METHOD AND APPARATUS (6-79)		
INVENTOR(S): (100-147)  MISTRETTA, K. KELCZ, F.	U.S. PATENT APPLICATION FILING DATE: 03/27/75 (148-153)	DHHS INVENTION REPORT DATE: 05/09/75 (154-159)
	U.S. PATENT APPLICATION SERIAL NUMBER: 562668 (171-178)	DHHS GRANT/AWARD NUMBER(S): 5T01CA0510411 (179-223)
	U.S. PATENT NUMBER: 3974386 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 08/10/76 (233-238)	DHHS NUMBER: G-265-74 (239-250)

1 LICENSEE(S) (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	3 LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES* BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES* BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSER CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN \$000) (66-70)	2 COM- MENT (71)
U.S. Government	11/15/74		A	0000		0000	00000	0000	00000	C - Canada Ret. Britain Japan B - W. Germany

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 C = FOREIGN PATENT(S) GRANTED G = UNDER EVALUATION/TESTING K = LICENSE TERMINATED  
 D = NEGOTIATING WITH POTENTIAL LICENSEE H = US PATENT APPLICATION WILL NOT BE FILED L = UNIVERSITY RIGHTS RELINQUISHED  
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PATENT ACTIVITY REPORT

ID #: (1-5)	01612
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (150-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 2/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: PRODUCTION OF RADIATION INDUCED THERMALLY ACTIVATED CURRENT (RITAC) ... (6-79)		
INVENTOR(S): (100-147)  MORAN MORGAN, P. PODGORSAK, E.  ET AL	U.S. PATENT APPLICATION FILING DATE: 08/16/74 (148-153)	DHHS INVENTION REPORT DATE: 03/18/74 (154-159)
	U.S. PATENT APPLICATION SERIAL NUMBER: 497874 (171-178)	DHHS GRANT/AWARD NUMBER(S): GH34585 - NSF Grant ST01CA0510410 (179-223) ST01CA0510411
	U.S. PATENT NUMBER: 3935457 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 01/27/76 (233-238)	DHHS NUMBER: G-65-74 (239-250)

LICENSEE(S) (26-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMER-CIAL SALE (47-52)	GROSS SALES* BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES* BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSER CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN \$000) (66-70)	COM- MENT (71)
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Thermon Mining	9/25/74		C						0	K C-Canada Lit. Brit-Abandoned

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 B = FOREIGN PATENT(S) APPLIED FOR F = US PATENT APPLICATION REJECTED LICENSEE J = LICENSEE TO GOVERNMENT  
 C = FOREIGN PATENT(S) GRANTED G = UNDER EVALUATION/TESTING K = LICENSE TERMINATED  
 D = NEGOTIATING WITH POTENTIAL LICENSEE H = US PATENT APPLICATION WILL NOT BE FILED L = UNIVERSITY RIGHTS RELINQUISHED  
 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

Minnesota Mining & Manufacturing Co., 3501 Hudson Rd., St Paul, Minn. 55119 - (612) 934110 (open again)

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PATENT ACTIVITY REPORT

ID #: (1-5)	01554
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/69
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 to 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: MULTIPLEXING OF PHYSIOLOGICAL SENSOR SIGNALS WITH GAMMA RAY... (6-79)		
INVENTOR(S): (160-147)	U.S. PATENT APPLICATION FILING DATE: 06/12/75 (148-153)	DHHS INVENTION REPORT DATE: 07/01/75 (154-159)
NICKLES, R.	U.S. PATENT APPLICATION SERIAL NUMBER: 586200 (171-178)	DHHS GRANT/AWARD NUMBER(S): HRA0500019609 (179-223)
	U.S. PATENT NUMBER: 4033335 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 07/05/77 (233-238)	DHHS NUMBER: G-127-75 (239-250)

LICENSEE(S) <sup>1</sup> (8-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (IN \$000) (66-70)	COM- MENT (71)
U.S. Government	6/30/75		A	0000		0000	00000	0000	00000	

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 G = UNDER EVALUATION/TESTING  
 H = US PATENT APPLICATION WILL NOT BE FILED  
 I = LICENSED  
 J = LICENSED AWAITING FDA APPROVAL TO GOVERNMENT  
 K = LICENSED TERMINATED  
 L = UNIVERSITY RIGHTS RELINQUISHED

PATENT ACTIVITY REPORT

ID #: (1-5)	01567
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: CORRECTION OF DATA LOSS IN GAMMA RAY SCINTILLATION CAMERAS (6-79)		
INVENTOR(S): (100-147)  NICKLES, R.	U.S. PATENT APPLICATION FILING DATE: 05/27/76 (148-153)	DHHS INVENTION REPORT DATE: 06/14/76 (154-159)
	U.S. PATENT APPLICATION SERIAL NUMBER: 690651 (171-178)	DHHS GRANT/AWARD NUMBER(S): HRA0500019609 (179-223)
	U.S. PATENT NUMBER: 4058728 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 11/15/77 (233-238)	DHHS NUMBER: G-127-75 (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES* BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES* BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (IN \$000) (66-70)	COM-2 MENT (71)
U.S. Government	6/30/75		A	0000		0000	00000	0000	00000	

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 J = LICENSEE TO GOVERNMENT  
 K = LICENSE TERMINATED  
 L = UNIVERSITY RIGHTS RELINQUISHED

PATENT ACTIVITY REPORT

ID #: (1-5)	01601
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: A THREE DIMENSIONAL FAST-COINCIDENCE GAMMA IMAGING SYSTEM (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 01/29/75 (148-153)	DHHS INVENTION REPORT DATE: 04/03/73 (154-159)
NICKLES, R. MEYER, H.	U.S. PATENT APPLICATION SERIAL NUMBER: 544883 (171-178)	DHHS GRANT/AWARD NUMBER(S): SE03PE0019607 (179-223)
	U.S. PATENT NUMBER: 3978337 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 08/31/76 (233-238)	DHHS NUMBER: G-69-73 (239-250)

LICENSEE(S) <sup>1</sup> (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSER CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN \$000) (66-70)	COM- <sup>2</sup> MENT (71)
U.S. Government	2/11/75		A	0000		0000	00000	0000	00000	

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 H = AWAITING FDA APPROVAL  
 I = LICENSE TO GOVERNMENT  
 J = LICENSE TERMINATED  
 K = LICENSE TERMINATED  
 L = UNIVERSITY RIGHTS RELINQUISHED

PATENT ACTIVITY REPORT

ID #: (1-5)	01556
INSTITUTION: (90-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/68 to 9/30/69
INSTITUTION TYPE:	UNIVERSITY

INVENTION: ANTIBIOTIC PRODUCTION BY MYCOPLASMA SPECIES III RP (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 10/17/75 (148-153)	DHHS INVENTION REPORT DATE: 09/01/75 (154-159)
PERLMAN, D. SYLVESTRE, M. SAKAI, T.	U.S. PATENT APPLICATION SERIAL NUMBER: 623413 (171-178)	DHHS GRANT/AWARD NUMBER(S): 5R01A110505 (179-223)
	U.S. PATENT NUMBER: 4025619 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 05/24/77 (233-238)	DHHS NUMBER: G-64-74 (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (57-61)	GROSS ROYALTY BY LICENSER CUR YR (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (66-70)	COM-MENT (71)
ABBOTT LABS U.S. Government	6/8/76 3/1/76		B A	0000		0000	00000	0000	00000	K

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A - Greece  
Germany  
It. Britain  
Korea  
Philippines  
B - Japan  
C - Canada  
France - abandoned

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PATENT ACTIVITY REPORT

ID #: (1-5)	01511
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (150-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 to 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: SOLID PHASE SYNTHESIS OF PROTECTED PEPTIDES (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 05/07/75 (148-153)	DHHS INVENTION REPORT DATE: 12/03/74 (154-159)
RICH, D. GURWARA, S.	U.S. PATENT APPLICATION SERIAL NUMBER: 575478 (171-178)	DHHS GRANT/AWARD NUMBER(S): 5R01AM1550703 (179-223)
	U.S. PATENT NUMBER: 4062746 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 12/13/77 (233-238)	DHHS NUMBER: G-276-74 (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE IN CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSER CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN \$000) (66-70)	COM- MENT (71)
U.S. Government	6/18/75		A	0000		0000	00000	0000	00000	C-Canada

\* 'GROSS SALES' SHOULD BE INTERPRETED AS THE WHOLESALE REVENUES OF THE LICENSEE.  
 1 LIST ADDRESSES AND TELEPHONE NUMBERS ON THE BACK OF THIS PAGE.  
 2 COMMENTS CODES (SEE BELOW); STATUS OF DEVELOPMENT AND CURRENT USE (INCLUDING FOREIGN PATENTS)  
 A = DROPPED; B = FOREIGN PATENT(S) APPLIED FOR; C = FOREIGN PATENT(S) GRANTED; D = NEGOTIATING WITH POTENTIAL LICENSEE; E = US PATENT APPLICATION PENDING; F = US PATENT APPLICATION REJECTED; G = UNDER EVALUATION/TESTING; H = US PATENT APPLICATION WILL NOT BE FILED; I = LICENSEE AWAITING FDA APPROVAL; J = LICENSEE TO GOVERNMENT; K = LICENSEE TERMINATED; L = UNIVERSITY RIGHTS RELINQUISHED  
 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE



PATENT ACTIVITY REPORT

ID #: (1-5)	01570
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: SOLID PHASE SYNTHESIS OF PROTECTED PEPTIDES (6-79)		
INVENTOR(S) <sup>1</sup> (100-147)	U.S. PATENT APPLICATION FILING DATE: 12/09/76 (148-153)	DHHS INVENTION REPORT DATE: 02/03/77 (154-159)
RICH, D. GURMARA, S.	U.S. PATENT APPLICATION SERIAL NUMBER: 748948 679478 (171-178)	DHHS GRANT/AWARD NUMBER(S): 5R01AM1550703 (179-223)
	U.S. PATENT NUMBER: 4101721 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 07/18/78 (233-239)	DHHS NUMBER: G-276-74 (239-250)

LICENSEE(S) <sup>1</sup> (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE <sup>2</sup> CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE <sup>2</sup> TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE <sup>2</sup> CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (IN \$000) (66-70)	COM- <sup>2</sup> MENT (71)
U.S. Government	6/18/75		A	0000		0000	00000	0000	00000	

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<sup>1</sup> LIST ADDRESSES AND TELEPHONE NUMBERS ON THE BACK OF THIS PAGE.

<sup>2</sup> COMMENTS CODES (SEE BELOW): STATUS OF DEVELOPMENT AND CURRENT USE (INCLUDING FOREIGN PATENTS)

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 F = US PATENT APPLICATION REJECTED  
 G = UNDER EVALUATION/TESTING  
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 I = LICENSEE AWAITING FDA APPROVAL  
 J = LICENSEE TO GOVERNMENT  
 K = LICENSEE TERMINATED  
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<sup>3</sup> LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

PATENT ACTIVITY REPORT

ID #: (1-5)	01571
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/60 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: SOLID PHASE SYNTHESIS OF PROTECTED PEPTIDES (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 11/10/77 (148-153)	DHHS INVENTION REPORT DATE: 02/03/77 (154-159)
RICH, D. GURWARA, S.	U.S. PATENT APPLICATION SERIAL NUMBER: <del>748946</del> 850141 (171-178)	DHHS GRANT/AWARD NUMBER(S): 5R01AM1550703 (179-223)
	U.S. PATENT NUMBER: 4189605 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 2/19/80 (233-238)	DHHS NUMBER: G-276-74 (239-250)

LICENSEE(S) (8-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE IN CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE CUR. YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (IN \$000) (66-70)	COM- MENT (71)
U.S. Government	6/18/75		A	0000		0000	00000	0000	00000	

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 C = FOREIGN PATENT(S) GRANTED  
 D = NEGOTIATING WITH POTENTIAL LICENSEE  
 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE  
 E = US PATENT APPLICATION PENDING  
 F = US PATENT APPLICATION REJECTED  
 G = UNDER EVALUATION/TESTING  
 H = US PATENT APPLICATION WILL NOT BE FILED  
 I = LICENSEE AWAITING FDA APPROVAL  
 J = LICENSEE TO GOVERNMENT  
 K = LICENSEE TERMINATED  
 L = UNIVERSITY RIGHTS RELINQUISHED

PATENT ACTIVITY REPORT

ID #: (1-5)	01605
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: IMMOBILIZATION OF MACROMOLECULES ON TISSUE (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 05/23/74 (148-153)	DHHS INVENTION REPORT DATE: 01/04/74 (154-159)
RICHARDSON, T.	U.S. PATENT APPLICATION SERIAL NUMBER: 472588 (171-178)	DHHS GRANT/AWARD NUMBER(S): 550ZRR0709807 (179-223)
	U.S. PATENT NUMBER: 4144131 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 03/13/79 (233-238)	DHHS NUMBER: G-2-74 (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSER CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN \$000) (66-70)	COM- MENT (71)
U.S. Government	9/4/74		A	0000		0000	00000	0000	00000	

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 A = DROPPED E = US PATENT APPLICATION PENDING I = LICENSEE AWAITING FDA APPROVAL  
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 D = NEGOTIATING WITH POTENTIAL LICENSEE H = US PATENT APPLICATION WILL NOT BE FILED L = UNIVERSITY RIGHTS RELINQUISHED  
 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

PATENT ACTIVITY REPORT

IO #: (1-5)	01575
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: METHOD FOR TYPING HUMAN LEUKOCYTE ANTIGENS (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 07/03/78 (148-153)	DHHS INVENTION REPORT DATE: 06/21/77 (154-159)
SHEEHY, M. SONDEL, P. ET AL	U.S. PATENT APPLICATION SERIAL NUMBER: 921487 (171-178)	DHHS GRANT/AWARD NUMBER(S): CA14520 GM 20130 AL1157603 GM 15422-10 (179-223) AL08439 CA 16836-01
	U.S. PATENT NUMBER: 4265873 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 5/5/81 (233-238)	DHHS NUMBER: G-122-77 (239-250)

LICENSEE(S) <sup>1</sup> (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYAL. BY LICENSER CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN \$000) (66-70)	COM-MENT (71)
BIO-TEST SERUM INST. U.S. Government	4/1/78 6/24/77		B A	0000		0000	000.00	0000	000.00	x k C-Canada

**CONFIDENTIAL**

\* 'GROSS SALES' SHOULD BE INTERPRETED AS THE WHOLESALE REVENUES OF THE LICENSEE.  
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PATENT ACTIVITY REPORT

ID #: (1-5)	01611
INSTITUTION: (90-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: PROCESS FOR PREPARING DL-STRIGOL (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 12/13/74 (148-153)	DHHS INVENTION REPORT DATE: 03/11/74 (154-159)
SIH, C.	U.S. PATENT APPLICATION SERIAL NUMBER: 450950 (171-178)	DHHS GRANT/AWARD NUMBER(S): 2R01AM487412 (179-223)
	U.S. PATENT NUMBER: 3887547 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 06/03/76 (233-238)	DHHS NUMBER: G-54-74 (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (IN \$000) (66-70)	COM- MENT (71)
U.S. Government	3/27/74		A	0000		0000	00000	0000	00000	

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PATENT ACTIVITY REPORT

ID #: (1-5)	01557
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: PROCESS FOR PREPARING DL-STRIGOL (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 12/13/74 (148-153)	DHHS INVENTION REPORT DATE: 09/01/75 (154-159)
SIH, C.	U.S. PATENT APPLICATION SERIAL NUMBER: 532759 (171-173)	DHHS GRANT/AWARD NUMBER(S): 2R01AM487412 (179-223)
	U.S. PATENT NUMBER: 3972916 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 08/03/76 (233-238)	DHHS NUMBER: G-54-74 (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES TO DATE (IN \$000) (66-70)	COM- MENT (71)
U.S. Government	3/27/74		A	0000		0000	00000	0000	00000	

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 K = UNDER EVALUATION/TESTING  
 L = US PATENT APPLICATION WILL NOT BE FILED  
 M = LICENSURE AWAITING FDA APPROVAL  
 N = LICENSURE TO GOVERNMENT  
 O = LICENSURE TERMINATED  
 P = UNIVERSITY RIGHTS RELINQUISHED

PATENT ACTIVITY REPORT

ID #: (1-5)	01558
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: PROCESS FOR PREPARING DL-STRIGOL (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 12/13/74 (148-153)	DHHS INVENTION REPORT DATE: 09/01/75 (154-159)
SIH, C.	U.S. PATENT APPLICATION SERIAL NUMBER: 532325 (171-178)	DHHS GRANT/AWARD NUMBER(S): 2R01AM487412 (179-223)
	U.S. PATENT NUMBER: 3954806 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 05/04/76 (233-238)	DHHS NUMBER: G-54-74 (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSER CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN \$000) (66-70)	COM- MENT (71)
U.S. Government	3/27/74		A	0000		0000	00000	0000	00000	

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 I = LICENSEE AWAITING FDA APPROVAL  
 J = LICENSEE TO GOVERNMENT  
 K = LICENSEE TERMINATED  
 L = UNIVERSITY RIGHTS RELINQUISHED

PATENT ACTIVITY REPORT

ID #: (1-5)	01566
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: GLYCOSIDES OF 2,6, BIS (HYDROXY)-3,7-DIOXABICYCLO (3,3,0) OCTANE (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 05/20/76 (148-153)	DHHS INVENTION REPORT DATE: 05/18/76 (154-159)
SIH, C.	U.S. PATENT APPLICATION SERIAL NUMBER: 688275 (171-178)	DHHS GRANT/AWARD NUMBER(S): 2R01AM0968811 (179-223)
	U.S. PATENT NUMBER: 4103006 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 07/25/78 (233-238)	DHHS NUMBER: G-110-76 (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREE- -MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYAL. BY LICENSER CUR. YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN \$000) (66-70)	COM- MENT (71)
U.S. Government	7/10/76		A	0000		0000	00000	0000	00000	

A- Hungary  
Switz  
B- N. Lic.  
Japan  
C- Canada  
France  
Brit. Britain

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 D = NEGOTIATING WITH POTENTIAL LICENSEE H = US PATENT APPLICATION WILL NOT BE FILED L = UNIVERSITY RIGHTS RELINQUISHED  
 3. LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE



PATENT ACTIVITY REPORT

IO #: (1-5)	01579
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (150-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: PROCESS FOR PREPARING L-DOPA (THRU MICROBIOLOGICAL MEANS) (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 09/29/69 (148-153)	DHHS INVENTION REPORT DATE: 09/25/69 (154-159)
SIH, C.	U.S. PATENT APPLICATION SERIAL NUMBER: 862061 (171-178)	DHHS GRANT/AWARD NUMBER(S): 5801FR0545607 (179-223) 5R01AM0487409 ST01AM0968805
	U.S. PATENT NUMBER: 3671397 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 06/20/72 (233-238)	DHHS NUMBER: G-267-69 (239-250)

LICENSEE(S) (8-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES* BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES* BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE CUR-YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (IN \$000) (66-70)	COM-MENT (71)
U.S. Government	1/13/70			0000		0000	00000	0000	00000	A-Holland

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- STATUS OF DEVELOPMENT AND CURRENT USE (INCLUDING FOREIGN PATENTS):  
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 K = UNDER EVALUATION/TESTING  
 L = US PATENT APPLICATION WILL NOT BE FILED
- LICENSEE STATUS:  
 I = LICENSEE AWAITING FDA APPROVAL  
 J = LICENSEE TO GOVERNMENT  
 K = LICENSEE TERMINATED  
 L = UNIVERSITY RIGHTS RELINQUISHED

PATENT ACTIVITY REPORT

ID #: (1-5)	01594
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (150-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/60 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: PROSTAGLANDINS AND METHODS FOR PREPARING SAME (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 01/26/72 (148-153)	DHHS INVENTION REPORT DATE: 01/20/72 (154-159)
SIH, C.	U.S. PATENT APPLICATION SERIAL NUMBER: 221058 (171-178)	DHHS GRANT/AWARD NUMBER(S): A955 (179-223) B738
	U.S. PATENT NUMBER: 4031129 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 06/21/77 (233-238)	DHHS NUMBER: G-84-72 (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYAL. BY LICENSER CUR. YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN \$000) (66-70)	COM- MENT (71)
MILES LABS	6/1/72		A	0000		0000	00000	0000	00000	K
ALZ CORP.	8/1/72		A	0000		0000	00000	0000	00000	K
JOHNSON & JOHNSON				0000		0000	00000	0000	00000	
TEI JEH	3/1/73		A	0000		0000	00000	0000	00000	C K
MITSUBISHI/TEIKOKU	5/4/74		A	0000		0000	00000	0000	00000	C
Ortlo	3/1/73		A							K
U.S. Government	3/17/72		A							

See other side  
re A, B, C

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Total gross royalties \$27,770.00

\* 'GROSS SALES' SHOULD BE INTERPRETED AS THE WHOLESALE REVENUES OF THE LICENSEE.  
 1 LIST ADDRESSES AND TELEPHONE NUMBERS ON THE BACK OF THIS PAGE.  
 2 COMMENTS CODES (SEE BELOW): STATUS OF DEVELOPMENT AND CURRENT USE (INCLUDING FOREIGN PATENTS)  
 A = DROPPED E = US PATENT APPLICATION PENDING I = LICENSEE AWAITING FDA APPROVAL  
 B = FOREIGN PATENT(S) APPLIED FOR F = US PATENT APPLICATION REJECTED LICENSEE J = LICENSEE TO GOVERNMENT  
 C = FOREIGN PATENT(S) GRANTED G = UNDER EVALUATION/TESTING K = LICENSE TERMINATED  
 D = NEGOTIATING WITH POTENTIAL LICENSEE H = US PATENT APPLICATION WILL NOT BE FILED L = UNIVERSITY RIGHTS RELINQUISHED  
 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

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C - Argentina

A - Bulgaria

A - Czech

Alfredo

Dimitar

Frantisek

Antonio

Stefan

Josef

Carlos

Stefan

Josef

Francisco

Stefan

Josef

Josef

Stefan

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PATENT ACTIVITY REPORT

ID #: 01576  
(1-5)

INSTITUTION: U OF WISCONSIN  
(80-99)

DHHS IPA NUMBER: (160-164)

DATE DHHS IPA SIGNED: 12/01/68  
(165-170)

REPORT PREPARER: WARP

PERIOD COVERED: 10/1/80 TO 9/30/81

INSTITUTION TYPE: UNIVERSITY

INVENTION: PROSTAGLANDINS AND METHODS FOR PREPARING SAME  
(6-79)

INVENTOR(S): (100-147)

U.S. PATENT APPLICATION FILING DATE: 02/25/77  
(148-153)

DHHS INVENTION REPORT DATE: 09/12/77  
(154-159)

SIH, C.

U.S. PATENT APPLICATION SERIAL NUMBER: 772018  
(171-178)

DHHS GRANT/AWARD NUMBER(S): A955 B738  
(179-223)

U.S. PATENT NUMBER: 4142056  
(224-232)

(FOR DHHS OFFICE USE ONLY)

U.S. PATENT DATE OF ISSUE: 02/27/79  
(233-238)

DHHS NUMBER: G-84-72  
(239-250)

LICENSEE(S) <sup>1</sup> (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSER CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN \$000) (66-70)	COM-MENT (71)
MILES LABS	6/1/72		A	0000		0000	00000	0000	00000	K
ALZA CORP.	8/1/72		A	0000		0000	00000	0000	00000	K
JOHNSON & JOHNSON				0000		0000	00000	0000	00000	
TEIJEH	3/1/73		A	0000		0000	00000	0000	00000	c K
MITSUBISHI/TEIKOKU	5/4/74		A	0000		0000	00000	0000	00000	c
Ortho	3/1/73		A							K
U.S. Government	3/1/72		A							

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**CONFIDENTIAL**

Total gross royalties \$27,770.00

A, B + C - same as 2/8, Ser 70 22/058 (LIL)

\* 'GROSS SALES' SHOULD BE INTERPRETED AS THE WHOLESALE REVENUES OF THE LICENSEE.  
 1 LIST ADDRESSES AND TELEPHONE NUMBERS ON THE BACK OF THIS PAGE.  
 2 COMMENTS CODES (SEE BELOW): STATUS OF DEVELOPMENT AND CURRENT USE (INCLUDING FOREIGN RIGHTS)  
 A = DROPPED E = US PATENT APPLICATION PENDING I = LICENSEE AWAITING FDA APPROVAL  
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 C = FOREIGN PATENT(S) GRANTED G = UNDER EVALUATION/TESTING K = LICENSEE TERMINATED  
 D = NEGOTIATING WITH POTENTIAL LICENSEE H = US PATENT APPLICATION WILL NOT BE FILED L = UNIVERSITY RIGHTS RELINQUISHED  
 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

**CONFIDENTIAL**

PATENT ACTIVITY REPORT

ID #: 01615  
(1-5)

INSTITUTION: U OF WISCONSIN  
(80-99)

DHHS IPA NUMBER: (150-164)

DATE DHHS IPA SIGNED: 12/01/68  
(165-170)

REPORT PREPARER: WAF

PERIOD COVERED: 10/1/60 TO 9/30/81

INSTITUTION TYPE: UNIVERSITY

INVENTION: PROSTAGLANDINS AND METHODS FOR PREPARING SAME  
(6-79)

INVENTOR(S): (100-147)

U.S. PATENT APPLICATION FILING DATE: 2/25/77  
(148-153)

DHHS INVENTION REPORT DATE: 09/12/77  
(154-159)

SIM, C.

U.S. PATENT APPLICATION SERIAL NUMBER: 772019  
(171-178)

DHHS GRANT/AWARD NUMBER(S): A955 B738  
(179-223)

U.S. PATENT NUMBER: 4088536  
(224-232)

(FOR DHHS OFFICE USE ONLY)

U.S. PATENT DATE OF ISSUE: 05/09/78  
(233-238)

DHHS NUMBER: G-84-72  
(239-250)

LICENSEE(S) <sup>1</sup> (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE <sup>3</sup> (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES* BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES* BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYAL. BY LICENSER CUR. YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN \$000) (66-70)	COM- MENT (71)
MILES LABS	6/1/72		A	0000		0000	00000	0000	00000	K
Alza Corp.	8/1/72		A							K
Teijin	3/1/73		A							K
Mitsubishi/Teikko	5/4/74		A							C
Ortho	3/1/73		A							K
U.S. Government	3/17/72		A							

A B & C - same as  
US Ser. No.  
221 058 (bil)

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Total gross royalties \$27,770.00

CONFIDENTIAL

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 1 LIST ADDRESSES AND TELEPHONE NUMBERS ON THE BACK OF THIS PAGE.  
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 A = DROPPED  
 B = FOREIGN PATENT(S) APPLIED FOR  
 C = FOREIGN PATENT(S) GRANTED  
 D = NEGOTIATING WITH POTENTIAL LICENSEE  
 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE  
 I = US PATENT APPLICATION PENDING  
 J = US PATENT APPLICATION REJECTED LICENSEE UNDER EVALUATION/TESTING  
 K = US PATENT APPLICATION WILL NOT BE FILED  
 L = LICENSEE AWAITING FDA APPROVAL  
 M = LICENSEE TO GOVERNMENT  
 N = LICENSEE TERMINATED  
 O = UNIVERSITY RIGHTS RELINQUISHED

PATENT ACTIVITY REPORT

ID #: (1-5)	01561
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: 3-SUBSTITUTED IQOO ALKENYL COMPOUNDS (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 09/09/74 (148-153)	DHHS INVENTION REPORT DATE: 09/01/75 (154-159)
SIH, C.	U.S. PATENT APPLICATION SERIAL NUMBER: <u>504162</u> <del>293442</del> (171-178)	DHHS GRANT/AWARD NUMBER(S): AM04874 (179-223)
	U.S. PATENT NUMBER: 3962352 (224-232)	(FOR DHHS OFFICE USE ONLY)
U.S. PATENT DATE OF ISSUE: 06/08/76 (233-238)	DHHS NUMBER: G-93-72 (239-250)	

LICENSEE(S) (8-25)	DATE LICENSE AGREE- MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (IN \$000) (66-70)	COM- MENT (71)
MILES LABS	6/1/72		A	0000		0000	00000	0000	00000	K
ALZA CORP.	8/1/72		A	0000		0000	00000	0000	00000	K
JOHNSON & JOHNSON				0000		0000	00000	0000	00000	
TEIJEN	3/1/73		A	0000		0000	00000	0000	00000	C K
MITSUBISHI/TEIKOKU	5/4/74		A	0000		0000	00000	0000	00000	C
Orzho	3/1/73		A							K
U.S. Government	12/20/72		A							

A, B + C - same as U.S. Ser. 70. 721,058 (2L)

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Total gross royalties \$27,770.00

\* 'GROSS SALES' SHOULD BE INTERPRETED AS THE WHOLESALE REVENUES OF THE LICENSEE.  
 1 LIST ADDRESSES AND TELEPHONE NUMBERS ON THE BACK OF THIS PAGE.  
 2 COMMENTS CODES (SEE BELOW): STATUS OF DEVELOPMENT AND CURRENT USE (INCLUDING FOREIGN PATENTS)  
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 C = FOREIGN PATENT(S) GRANTED  
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 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE  
 I = US PATENT APPLICATION PENDING  
 J = US PATENT APPLICATION REJECTED LICENSEE  
 K = UNDER EVALUATION/TESTING  
 L = US PATENT APPLICATION WILL NOT BE FILED  
 M = LICENSEE AWAITING FDA APPROVAL  
 N = LICENSEE TO GOVERNMENT  
 O = LICENSEE TERMINATED  
 P = UNIVERSITY RIGHTS RELINQUISHED

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PATENT ACTIVITY REPORT

ID #: 01559  
(1-5)

INSTITUTION: U OF WISCONSIN  
(88-99)

DHHS IPA NUMBER:  
(160-164)

DATE DHHS IPA SIGNED: 12/01/68  
(165-170)

REPORT PREPARER: WAEF

PERIOD COVERED: 10/1/80 TO 7/30/81

INSTITUTION TYPE: UNIVERSITY

INVENTION: 3-SUBSTITUTED IODO ALKENYL COMPOUNDS  
(6-79)

INVENTOR(S):  
(100-147)

U.S. PATENT APPLICATION FILING DATE: 09/09/74  
(148-153)

DHHS INVENTION REPORT DATE: 09/01/75  
(154-159)

SIH, C.

U.S. PATENT APPLICATION SERIAL NUMBER: 504163  
(171-178)

DHHS GRANT/AWARD NUMBER(S): AM04874  
(179-223)

U.S. PATENT NUMBER: 2962353  
(224-232)

(FOR DHHS OFFICE USE ONLY)

U.S. PATENT DATE OF ISSUE: 06/08/76  
(233-238)

DHHS NUMBER: G-93-72  
(239-250)

LICENSEE(S) (26-29)	DATE LICENSE AGREE- -MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP. PATENT (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (57-61)	GROSS ROYAL BY LICENSEE CUR YR (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (66-70)	COM- -MENT (71)
NILES LABS	6/1/72		A	0000		0000	00000	0000	00000	K
ALZA CORP.	8/1/72		A	0000		0000	00000	0000	00000	K
JOHNSON & JOHNSON				0000		0000	00000	0000	00000	
TEIVEN	3/1/73		A	0000		0000	00000	0000	00000	C K
MITSUBISHI/TEIKOKO	5/4/74		A	0000		0000	00000	0000	00000	C
U.S. Government	12/20/72		A							
Ortels	3/1/73		A							K

A, B + C - same as U.S. Sec. 70, 221058 (S.L.)

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Total gross royalties \$27,770.00

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 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

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Yokohama Cement Co., Ltd., Yokohama, Japan 46515 - (219) 262-7800

Alcoa Corporation, 950 Payer Drive, P.O. Box 200, Calgary, Alberta T2C 3P4 - (415) 493-3200

Little Chemicals Corporation, Kanto, 718 28869

Tokai Cement Co., Ltd., 4-1-1, Utsunomiya-City, Utsunomiya, Gunma, Tokyo 100 Japan - (506) 4111

Tokai Cement Co., Ltd., 4-1-1, Utsunomiya-City, Utsunomiya, Gunma, Tokyo, Japan

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Tokai Cement Co., Ltd., 4-1-1, Utsunomiya-City, Utsunomiya, Gunma, Tokyo, Japan

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PRIME / PRINTED IN U.S.A.



PATENT ACTIVITY REPORT

ID #: (1-5)	01560
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 to 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: 3-SUBSTITUTED IODO ALKENYL COMPOUNDS (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 09/09/74 (148-153)	DHHS INVENTION REPORT DATE: 09/01/75 (154-159)
SIH, C.	U.S. PATENT APPLICATION SERIAL NUMBER: 504164 (171-178)	DHHS GRANT/AWARD NUMBER(S): AM04874 (179-223)
	U.S. PATENT NUMBER: 3962351 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 06/08/76 (233-238)	DHHS NUMBER: G-93-72 (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREE- -MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (IN \$000) (66-70)	COM- MENT (71)
MILES LABS	6/1/72		A	0000		0000	00000	0000	00000	K
ALZA CORP.	8/1/72		A	0000		0000	00000	0000	00000	K
<del>JOHNSON &amp; JOHNSON</del>				0000		0000	00000	0000	00000	
TEIJEN	3/1/73		A	0000		0000	00000	0000	00000	C K
TEIKOKU/MITSUBISHI	5/4/74		A	0000		0000	00000	0000	00000	C
<i>Ortel</i>	3/1/73		A							K
<i>U.S. Government</i>	3/17/72		A							
<i>Miles Labs</i>	6/1/79		A							

A, B+C - same as  
U.S. Ser. No.  
221058 (del)

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Total gross royalties \$27,770.00

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 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

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PATENT ACTIVITY REPORT

ID #: 01603  
(1-5)

INSTITUTION: U OF WISCONSIN  
(80-99)

DHHS IPA NUMBER:  
(160-164)

DATE DHHS IPA SIGNED: 12/01/68  
(165-170)

REPORT PREPARER: WARF

PERIOD COVERED: 10/1/80 TO 9/30/81

INSTITUTION TYPE: UNIVERSITY

INVENTION: METHOD FOR PREPARING 2-SUBSTITUTED-4-HYDROXY CYCLOPENTENE-1-3-DIONES  
(8-79)

INVENTOR(S):  
(100-147)

U.S. PATENT APPLICATION FILING DATE: 09/29/72  
(148-153)

DHHS INVENTION REPORT DATE: 09/26/72  
(154-159)

SIH, C.

U.S. PATENT APPLICATION SERIAL NUMBER: 293457  
(171-178)

DHHS GRANT/AWARD NUMBER(S): AM9688  
(179-223) AM4874

U.S. PATENT NUMBER: 3773622  
(224-232)

(FOR DHHS OFFICE USE ONLY)

U.S. PATENT DATE OF ISSUE: 11/20/73  
(233-238)

DHHS NUMBER: G-169-72  
(239-250)

LICENSEE(S) <sup>1</sup> (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE <sup>3</sup> (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSER CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN \$000) (66-70)	COM-MENT <sup>2</sup> (71)
MILES LABS	6/1/72		A	0000		0000	00000	0000	00000	K
ALZA CORP.	8/1/72		A	0000		0000	00000	0000	00000	K
JOHNSON & JOHNSON				0000		0000	00000	0000	00000	
TEIJIEN	3/1/73		A	0000		0000	00000	0000	00000	C K
MITSUBISHI/TEIKOKO	5/4/74		A	0000		0000	00000	0000	00000	C
<i>Ortco</i>	3/1/73		A							K
<i>Miles Labs</i>	6/1/79		A							<i>See other side re A, B, C.</i>

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*Total gross royalties \$27,770.00*

\* 'GROSS SALES' SHOULD BE INTERPRETED AS THE WHOLESALE REVENUES OF THE LICENSEE.

1 LIST ADDRESSES AND TELEPHONE NUMBERS ON THE BACK OF THIS PAGE.

2 COMMENTS CODES (SEE BELOW): STATUS OF DEVELOPMENT AND CURRENT USE (INCLUDING DESIGN, PENDING, REJECTED, AWAITING FDA APPROVAL, TO GOVERNMENT, TERMINATED, UNIVERSITY RIGHTS RELINQUISHED)

A = DROPPED E = US PATENT APPLICATION PENDING I = LICENSEE AWAITING FDA APPROVAL  
 B = FOREIGN PATENT(S) APPLIED FOR F = US PATENT APPLICATION REJECTED LICENSEE J = LICENSEE TO GOVERNMENT  
 C = FOREIGN PATENT(S) GRANTED G = UNDER EVALUATION/TESTING K = LICENSE TERMINATED  
 D = NEGOTIATING WITH POTENTIAL LICENSEE H = US PATENT APPLICATION WILL NOT BE FILED L = UNIVERSITY RIGHTS RELINQUISHED

3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

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Patents granted in strand:      *Apples: daisy*      *Apples: pink*

C - Argentina      A - Austria      B - Austria

*Chile*      *Belgium*      *Belgium*

*Canada*      *France*      *France*

*Denmark*      *Germany*      *Germany*

*Spain*      *Italy*      *Italy*

*Sweden*      *Japan*      *Japan*

*Switzerland*      *USSR*      *USSR*

*Yugoslavia*      *Yugoslavia*

*Patents still in force*

C - Canada

*Belgium*

*France*

*Germany*

*Italy*

*Japan*

*USSR*

*Yugoslavia*

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PATENT ACTIVITY REPORT

ID #: (1-5)	01606
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (150-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: PROCESS FOR STEREO-SPECIFICALLY PREPARING CHIRAL-2-SUBSTITUTED-4-HYDROXY. (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION: FILING DATE: 11/4/77 148-153	DHHS INVENTION REPORT DATE: 09/26/72 (154-159)
SIH, C. HEATHER, J.	U.S. PATENT APPLICATION: SERIAL NUMBER: 309766 171-178	DHHS GRANT/AWARD NUMBER(S): AM4974 (179-223)
	U.S. PATENT NUMBER: 2368144 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT NUMBER: Rev. 29990 224-232	DHHS NUMBER: G-199-72 (239-250)
	U.S. PATENT DATE OF ISSUE: Rev. 5/8/79 233-238	

LICENSEE(S) (8-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSER CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN \$000) (66-70)	COM-MENT (71)
NILES LABS	6/1/72		A	0000		0000	00000	0000	00000	K
ALZA CORP.	8/1/72		A	0000		0000	00000	0000	00000	K
JOHNSON & JOHNSON				0000		0000	00000	0000	00000	
TEIJEN	3/1/73		A	0000		0000	00000	0000	00000	C K
MITSUBISHI/TEIKOKO	5/4/74		A	0000		0000	00000	0000	00000	C
Ortko	3/1/73		A							K
Thelus Labs	6/1/79		A							See other side re A, B, C

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Total gross royalties \$27,770.00

\* 'GROSS SALES' SHOULD BE INTERPRETED AS THE WHOLESALE REVENUES OF THE LICENSEE.  
 1 LIST ADDRESS, CITIES AND TELEPHONE NUMBERS ON THE BACK OF THIS PAGE.  
 2 COMMENTS, CODES AND TELEPHONE NUMBERS ON THE BACK OF THIS PAGE.  
 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

STATUS OF DEVELOPMENT AND CURRENT USE (INCLUDING DESIGN PENDING)  
 D = DROPPED  
 E = FOREIGN PATENT(S) APPLIED FOR  
 F = FOREIGN PATENT(S) GRANTED  
 G = NEGOTIATING WITH POTENTIAL LICENSEE  
 H = UNDER EVALUATION/TESTING  
 I = US PATENT APPLICATION WILL NOT BE FILED  
 J = LICENSE PENDING GOVERNMENT APPROVAL  
 K = LICENSE TO GOVERNMENT  
 L = LICENSE TERMINATED  
 M = UNIVERSITY RIGHTS RELINQUISHED

CONFIDENTIAL

Account granted & stated

Applicant assigned

Applicant pending

C - Applicant

Account

Business

Entity

China

Goods

Imports

Of Interest

Of Interest

Of Interest

Of Interest

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PATENT ACTIVITY REPORT

IO #: (1-5)	01569
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: PROCESS FOR STEREO-SPECIFICALLY PREP. CHIRAL-2-SUB. 4-HYDROXY-2-CYCLO. ... (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 05/20/76 (148-153)	DHHS INVENTION REPORT DATE: 09/08/76 (154-159)
SIH, C. HEATHER, J.	U.S. PATENT APPLICATION SERIAL NUMBER: 688276 (171-178)	DHHS GRANT/AWARD NUMBER(S): AM4874 (179-223)
	U.S. PATENT NUMBER: 4057851 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 11/08/77 (233-238)	DHHS NUMBER: G-199-72 (239-250)

LICENSEE(S) (8-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (IN \$000) (66-70)	COM- MENT (71)
MILES LABS	6/1/72		A	0000		0000	00000	0000	00000	K
ALZA CORP.	8/1/72		A	0000		0000	00000	0000	00000	K
JOHNSON & JOHNSON				0000		0000	00000	0000	00000	
TEIJEN	3/1/73		A	0000		0000	00000	0000	00000	C K
MITSUBISHI/TEIKOKU	5/4/74		A	0000		0000	00000	0000	00000	C
Ortlo	3/1/73		A							K
U. S. Government	5/11/73		A							
Miles Labs	6/1/79		A							

A, B, C - same as Re 848618 (Sil-Heather)

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\$ Total gross royalties \$27,770.00

\* 'GROSS SALES' SHOULD BE INTERPRETED AS THE WHOLESALE REVENUES OF THE LICENSEE.  
 1 LIST ADDRESSES AND TELEPHONE NUMBERS ON THE BACK OF THIS PAGE.  
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 A = DROPPED  
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 C = FOREIGN PATENT(S) GRANTED  
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 F = US PATENT APPLICATION REJECTED LICENSEE  
 G = UNDER EVALUATION/TESTING  
 H = US PATENT APPLICATION WILL NOT BE FILED  
 I = LICENSEE AWAITING FDA APPROVAL  
 J = LICENSEE TO GOVERNMENT  
 K = LICENSEE TERMINATED  
 L = UNIVERSITY RIGHTS RELINQUISHED

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PATENT ACTIVITY REPORT

IO #: (1-5)	01548
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: RODENTICIDE (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 05/12/75 (148-153)	DHHS INVENTION REPORT DATE: 05/28/75 (154-159)
	U.S. PATENT APPLICATION SERIAL NUMBER: 576347 (171-178)	DHHS GRANT/AWARD NUMBER(S): R01AM14881 (179-223)
SUTTIE, J.	U.S. PATENT NUMBER: 4021568 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 05/03/77 (233-238)	DHHS NUMBER: G-138-74 (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-48)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (IN \$000) (66-70)	COM- MENT (71)
U.S. Government	6/10/74		A	0000		0000	00000	0000	00000	C-Canada

\* 'GROSS SALES' SHOULD BE INTERPRETED AS THE WHOLESALE REVENUES OF THE LICENSEE.  
 1 LIST ADDRESSES AND TELEPHONE NUMBERS ON THE BACK OF THIS PAGE.  
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 F = US PATENT APPLICATION REJECTED  
 G = UNDER EVALUATION/TESTING  
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 I = LICENSEE AWAITING FDA APPROVAL  
 J = LICENSEE TO GOVERNMENT  
 K = LICENSE TERMINATED  
 L = UNIVERSITY RIGHTS RELINQUISHED  
 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

PATENT ACTIVITY REPORT

ID #: (1-5)	01564
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WAPF
PERIOD COVERED:	10/1/68 to 9/30/69
INSTITUTION TYPE:	UNIVERSITY

INVENTION: STEREOCONTROL IN ALLYLIC ALKYLATION CATALYZED BY PALLADIUM (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 01/05/76 (148-153)	DHHS INVENTION REPORT DATE: 02/06/76 (154-159)
TROST, B. VERHOEVEN, T.	U.S. PATENT APPLICATION SERIAL NUMBER: 646640 (171-178)	DHHS GRANT/AWARD NUMBER(S): 5R01GH13598 (179-223) 761MPS03336 - NSF Grant
	U.S. PATENT NUMBER: 4051157 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 09/27/77 (233-238)	DHHS NUMBER: G-28-76 (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (IN \$000) (66-70)	COM- MENT (71)
U.S. Government	2/24/76		A	0000		0000	00000	0000	00000	

\* 'GROSS SALES' SHOULD BE INTERPRETED AS THE WHOLESALE REVENUES OF THE LICENSEE.  
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 3. LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE  
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 G = UNDER EVALUATION/TESTING  
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 J = LICENSEE TO GOVERNMENT  
 K = LICENSE TERMINATED  
 L = UNIVERSITY RIGHTS RELINQUISHED



PATENT ACTIVITY REPORT

IO #: (1-5)	01491
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: RING EXPANSION AND CHAIN EXTENSION PROCESS AND REAGENTS  
(6-79)

INVENTOR(S): (100-147)	U. S. PATENT APPLICATION FILING DATE: 07/03/80 (148-153)	DHHS INVENTION REPORT DATE: 06/23/80 (154-159)
TRÖST, B. VINCENT, J.	U. S. PATENT APPLICATION SERIAL NUMBER: 165760 (171-178)	DHHS GRANT/AMARD NUMBER(S): 8075CHE7615113-NSF Grant (179-223) <i>NIH GM 13598</i> <i>NIH GM 7435-01</i>
	U. S. PATENT NUMBER: (224-232)	(FOR DHHS OFFICE USE ONLY)
	U. S. PATENT DATE OF ISSUE: (233-238)	DHHS NUMBER: G-222-80 (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (IN \$000) (66-70)	COM- MENT (71)
U.S. Government	8/26/80		A	0000		0000	00000	0000	00000	E

- \* 'GROSS SALES' SHOULD BE INTERPRETED AS THE WHOLESALE REVENUES OF THE LICENSEE.  
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 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE  
 E = US PATENT APPLICATION PENDING  
 F = US PATENT APPLICATION REJECTED LICENSEE  
 G = UNDER EVALUATION/TESTING  
 H = US PATENT APPLICATION WILL NOT BE FILED  
 I = LICENSEE AWAITING FDA APPROVAL  
 J = LICENSEE TO GOVERNMENT  
 K = LICENSE TERMINATED  
 L = UNIVERSITY RIGHTS RELINQUISHED

PATENT ACTIVITY REPORT

ID #: (1-5)	01514
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (150-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: OXIDATIVE DECARBOXYLATION OF CARBOXYLIC ACIDS (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 05/19/75 (148-153)	DHHS INVENTION REPORT DATE: 03/18/75 (154-159)
TROST, B. TAMARU, Y.	U.S. PATENT APPLICATION SERIAL NUMBER: 578533 (171-178)	DHHS GRANT/AWARD NUMBER(S): 5R01GM13598 (179-223) 761MPS03396-NSF Grant
	U.S. PATENT NUMBER: 4007211 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 02/08/77 (233-238)	DHHS NUMBER: G-60-75 (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMER -CIALE SALE (47-52)	GROSS SALES* BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES* BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSER CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN \$000) (66-70)	COM- MENT (71)
U.S. Government	6/25/75		A	0000		0000	00000	0000	00000	

- \* 'GROSS SALES' SHOULD BE INTERPRETED AS THE WHOLESALE REVENUES OF THE LICENSEE.
- 1 LIST ADDRESSES AND TELEPHONE NUMBERS ON THE BACK OF THIS PAGE.
- 2 COMMENTS CODES (SEE BELOW): STATUS OF DEVELOPMENT AND CURRENT USE (INCLUDING FOREIGN PATENTS)
- |   |   |                                    |
|---|---|------------------------------------|
| A = DROPPED                             | F = US PATENT APPLICATION PENDING           | I = LICENSEE AWAITING FDA APPROVAL |
| B = FOREIGN PATENT(S) APPLIED FOR       | G = US PATENT APPLICATION REJECTED LICENSEE | J = LICENSEE TO GOVERNMENT         |
| C = FOREIGN PATENT(S) GRANTED           | H = UNDER EVALUATION/TESTING                | K = LICENSE TERMINATED             |
| D = NEGOTIATING WITH POTENTIAL LICENSEE | L = US PATENT APPLICATION WILL NOT BE FILED | L = UNIVERSITY RIGHTS RELINQUISHED |
- 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

PATENT ACTIVITY REPORT

ID #: (1-5)	01599
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: METHOD AND APPARATUS FOR DIALYSIS (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 10/22/71 (148-153)	DHHS INVENTION REPORT DATE: 03/27/73 (154-159)
UPDIKE, S.	U.S. PATENT APPLICATION SERIAL NUMBER: 191720 (171-178)	DHHS GRANT/AWARD NUMBER(S): GM16133 (179-223)
	U.S. PATENT NUMBER: 3846236 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 11/05/74 (233-238)	DHHS NUMBER: G-66-73 (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (IN \$000) (66-70)	COM-MENT (71)
ENKA A.G.	9/1/79		B	0000		0000	00000	0000	00000	
<i>U.S. Government</i>	<i>5/1/73</i>		<i>A</i>							<i>C-Canada</i>

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 I = LICENSEE AWAITING FDA APPROVAL  
 J = LICENSEE TO GOVERNMENT  
 K = LICENSE TERMINATED  
 L = UNIVERSITY RIGHTS RELINQUISHED

Enrollment, D-5600 HyperTech, Germany - (02.02) 32-1

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PATENT ACTIVITY REPORT

ID #: (1-5)	01614
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: CATALYST CONTAINING SEMI-PERMEABLE MEMBRANE FOR RESPIRATORY GAS EXCHANGE. (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 01/17/74 (148-153)	DHHS INVENTION REPORT DATE: 05/15/74 (154-159)
UPDIKE, S.	U.S. PATENT APPLICATION SERIAL NUMBER: 434231 (171-178)	DHHS GRANT/AWARD NUMBER(S): GM16133 (179-223)
	U.S. PATENT NUMBER: 3996141 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 12/07/76 (233-238)	DHHS NUMBER: G-66-73 (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES* BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES* BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (IN \$000) (66-70)	COM-MENT (71)
Enka AG	8/1/79		B	0000		0000	00000	0000	00000	C-Canada
U.S. Government	5/11/73		A							

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\* 'GROSS SALES' SHOULD BE INTERPRETED AS THE WHOLESALE REVENUES OF THE LICENSEE.  
 1 LIST ADDRESSES AND TELEPHONE NUMBERS ON THE BACK OF THIS PAGE.  
 2 COMMENTS CODES (SEE BELOW): STATUS OF DEVELOPMENT AND CURRENT USE (INCLUDING FOREIGN PATENTS)  
 A = DROPPED  
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 C = FOREIGN PATENT(S) GRANTED  
 D = NEGOTIATING WITH POTENTIAL LICENSEE  
 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE  
 E = US PATENT APPLICATION PENDING  
 F = US PATENT APPLICATION REJECTED  
 G = UNDER EVALUATION/TESTING  
 H = US PATENT APPLICATION WILL NOT BE FILED  
 I = LICENSEE AWAITING FDA APPROVAL  
 J = LICENSEE TO GOVERNMENT  
 K = LICENSE TERMINATED  
 L = UNIVERSITY RIGHTS RELINQUISHED

PATENT ACTIVITY REPORT

ID #: 01600  
(1-5)

INSTITUTION: U OF WISCONSIN  
(80-99)

DHHS IPA NUMBER: (160-164)

DATE DHHS IPA SIGNED: 12/01/68  
(165-170)

REPORT PREPARER: WARP

PERIOD COVERED: 10/1/80 TO 9/30/81

INSTITUTION TYPE: UNIVERSITY

INVENTION: METHOD AND APPARATUS FOR DIALYZING CARBON DIOXIDE FROM BLOOD PLASMA  
(6-79)

INVENTOR(S)<sup>1</sup>: UPDIKE, S.  
(100-147)

U.S. PATENT APPLICATION FILING DATE: 10/05/72  
(148-153)

U.S. PATENT APPLICATION SERIAL NUMBER: 295264  
(171-178)

U.S. PATENT NUMBER: 3953329  
(224-232)

U.S. PATENT DATE OF ISSUE: 04/27/76  
(233-238)

DHHS INVENTION REPORT DATE: 03/27/73  
(154-159)

DHHS GRANT/AWARD NUMBER(S): GM16133  
(179-223)

(FOR DHHS OFFICE USE ONLY)

DHHS NUMBER: 6-66-73  
(239-250)

LICENSEE(S) <sup>1</sup> (8-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES <sup>2</sup> BY LICENSEE <sup>3</sup> CURRENT YEAR (IN \$000) (53-56)	GROSS SALES <sup>2</sup> BY LICENSEE <sup>3</sup> TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (IN \$000) (66-70)	COM- <sup>2</sup> MENT (71)
<i>Enka AG</i>	<i>8/1/79</i>		<i>B</i>	<i>0000</i>		<i>0000</i>	<i>00000</i>	<i>0000</i>	<i>00000</i>	<i>A-Canada</i>
<i>U.S. Government</i>	<i>5/11/73</i>		<i>A</i>							

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<sup>1</sup> LIST ADDRESSES AND TELEPHONE NUMBERS ON THE BACK OF THIS PAGE.  
<sup>2</sup> COMMENTS CODES (SEE BELOW): STATUS OF DEVELOPMENT AND CURRENT USE (INCLUDING FOREIGN PATENTS)  
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 D = NEGOTIATING WITH POTENTIAL LICENSEE  
 H = US PATENT APPLICATION PENDING  
 I = US PATENT APPLICATION REJECTED  
 J = US PATENT APPLICATION REJECTED LICENSEE  
 K = UNDER EVALUATION/TESTING  
 L = US PATENT APPLICATION WILL NOT BE FILED  
 M = LICENSEE AWAITING FDA APPROVAL  
 N = LICENSEE TO GOVERNMENT  
 O = LICENSEE TERMINATED  
 P = UNIVERSITY RIGHTS RELINQUISHED  
<sup>3</sup> LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

PATENT ACTIVITY REPORT

ID #: (1-5)	01608
INSTITUTION: (30-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: DEVICE AND METHOD FOR SAMPLE APPLICATION BY WATER REGAIN OF A GEL (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 05/01/73 (148-153)	DHHS INVENTION REPORT DATE: 01/04/74 (154-159)
UPDIKE, S.	U.S. PATENT APPLICATION SERIAL NUMBER: 356092 (171-178)	DHHS GRANT/AMARD NUMBER(S): GM16133 (179-223) GM70157
	U.S. PATENT NUMBER: 4138474 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 02/06/79 (233-238)	DHHS NUMBER: G-67-70 (239-250)

LICENSEE(S) <sup>1</sup> (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES* BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES* BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (IN \$000) (66-70)	COM- MENT (71)
NICHOLS INST.	6/1/79		B	0000		0000	00000	0000	00000	
SQUIBB	7/1/73		A	0000		0000	00000	0000	00000	K
UNION CARBIDE	8/1/74		A	0000		0000	00000	0000	00000	K
Thies Labs	9/1/74		A							K
U.S. Government	1/1/74		A							

B - Japan  
C - Australia  
Canada  
France  
U.S.  
U.K. Britain

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Total gross royalties \$21,000.00

\* GROSS SALES SHOULD BE INTERPRETED AS THE WHOLESALE REVENUES OF THE LICENSEE.  
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 2 COMMENTS CODES (SEE BELOW): STATUS OF DEVELOPMENT AND CURRENT USE (INCLUDE FOREIGN LICENSES)  
 R = DROPPED I = US PATENT APPLICATION PENDING I = LICENSEE AWAITING FDA APPROVAL  
 C = FOREIGN PATENT(S) APPLIED FOR II = US PATENT APPLICATION REJECTED LICENSEE J = LICENSEE TO GOVERNMENT  
 D = FOREIGN PATENT(S) GRANTED III = UNDER EVALUATION/TESTING K = LICENSE TERMINATED  
 N = NEGOTIATING WITH POTENTIAL LICENSEE IV = US PATENT APPLICATION WILL NOT BE FILED L = UNIVERSITY RIGHTS RELINQUISHED  
 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

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PATENT ACTIVITY REPORT

ID #: (1-5)	01613
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: METHOD FOR IMMUNOLOGICAL DETERMINATIONS (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 01/28/74 (148-153)	DHHS INVENTION REPORT DATE: 05/15/74 (154-159)
UPDIKE, S.	U.S. PATENT APPLICATION SERIAL NUMBER: 437135 (171-178)	DHHS GRANT/AWARD NUMBER(S): GM70157 (179-223) GM16133
	U.S. PATENT NUMBER: 3970429 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 07/20/76 (233-238)	DHHS NUMBER: G-67-70 (239-250)

LICENSEE(S) (16-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (IN \$000) (66-70)	COM- MENT (71)
<i>B.R. SQUIBB &amp; LANS</i>	<i>7/1/73</i>		<i>A</i>	<i>0000</i>		<i>0000</i>	<i>00000</i>	<i>0000</i>	<i>00000</i>	<i>K</i>
<i>UNION CARBIDE</i>	<i>8/1/74</i>		<i>A</i>	<i>0000</i>		<i>0000</i>	<i>00000</i>	<i>0000</i>	<i>00000</i>	<i>K</i>
<i>Miles Labs</i>	<i>9/1/74</i>		<i>A</i>							<i>K</i>
<i>Nichols Institute</i>	<i>6/1/79</i>		<i>B</i>							
<i>U.S. Government</i>	<i>1/17/74</i>		<i>A</i>							

*B-Japan  
C-Australia  
Canada  
France  
U.S.  
U.K. Britain*

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*Total gross royalties \$21,000.00*

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 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

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PATENT ACTIVITY REPORT

ID #: 01607  
(1-5)

INSTITUTION: U OF WISCONSIN  
(80-99)

DHHS IPA NUMBER: (160-164)

DATE DHHS IPA SIGNED: 12/01/68  
(165-170)

REPORT PREPARER: WARP

PERIOD COVERED: 10/1/60 TO 9/30/82

INSTITUTION TYPE: UNIVERSITY

INVENTION: THE PREPARATION OF DRY, POROUS GEL PARTICLES.....  
(6-79)

INVENTOR(S):  
(180-147)

UPDIKE, S.

U.S. PATENT APPLICATION FILING DATE: 05/01/73  
(148-153)

U.S. PATENT APPLICATION SERIAL NUMBER: 356093  
(171-178)

U.S. PATENT NUMBER: 3925017  
(224-232)

U.S. PATENT DATE OF ISSUE: 12/09/75  
(233-238)

DHHS INVENTION REPORT DATE: 01/04/74  
(154-159)

DHHS GRANT/AWARD NUMBER(S): GM16133  
(179-223) GM70157

(FOR DHHS OFFICE USE ONLY)

DHHS NUMBER: G-67-70  
(239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES* BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES* BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYAL BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (IN \$000) (66-70)	COM-MENT (71)
U.S. Government	1/17/74		A	0000		0000	00000	0000	00000	
E.L. Squitt	7/1/73		A							K
Miles Labs	9/1/74		A							K
Union Carbide	8/1/74		A							K
Nichols Institute	6/1/74		B							

B-Japan  
C-Australia  
Canada  
France  
U.K.  
Lat. America

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Total gross royalties \$21,000.00

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PATENT ACTIVITY REPORT

ID #: (1-5)	01580
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: REAGENT FOR IMMUNOLOGICAL DETERMINATIONS (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 04/29/70 (148-153)	DHHS INVENTION REPORT DATE: 04/29/70 (154-159)
UPDIKE, S. GOODFRIEND, T.	U.S. PATENT APPLICATION SERIAL NUMBER: 33098 (171-178)	DHHS GRANT/AWARD NUMBER(S): GM16133 (179-223) HE09922
	U.S. PATENT NUMBER: 3793445 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 02/19/74 (233-238)	DHHS NUMBER: G-67-70 (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES* BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES* BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSER CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN \$000) (66-70)	COM- MENT (71)
U.S. Government	3/15/71		A	0000		0000	00000	0000	00000	K
E.R. Squibb	7/1/73		A							K
Tiles Labs	9/1/74		A							K
Union Carbide	8/1/74		A							K
Nichols Institute	6/1/79		B							

C-Canada

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Total gross royalties \$21,000.00

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PATENT ACTIVITY REPORT

IC # (1-5)	01486
INSTITUTION (80-99)	U OF WISCONSIN
DHHS IPA NUMBER (160-164)	
DATE DHHS IPA SIGNED (165-170)	12/01/68
REPORT PREPARER	WARE
PERIOD COVERED	10/1/80 TO 9/30/81
INSTITUTION TYPE	UNIVERSITY

INVENTION: APPARATUS FOR MONITORING BLOOD GLUCOSE LEVELS AND ELEMENTS (6-79)		
INVENTOR(S) (100-147)	U.S. PATENT APPLICATION FILING DATE: 10/02/78 (148-153)	DHHS INVENTION REPORT DATE: 08/07/79 (154-159)
UPDIKE, S. SHUTTS, M.	U.S. PATENT APPLICATION SERIAL NUMBER: 947949 (171-178)	DHHS GRANT/AWARD NUMBER(S): GM16133 (179-223)
	U.S. PATENT NUMBER: 4,140,438 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 12/23/60 (233-238)	DHHS NUMBER: G-264-79 (239-250)

LICENSEE(S) (8-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE FOR CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TO DATE TOTAL (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE FOR CUR. YR (IN \$000) (62-65)	TOTAL GROSS ROYALTY BY LICENSEE TO DATE (IN \$000) (66-70)	COM-2 MEAT (71)
U.S. Gov. Stamark Corporation	8/15/79 9/17/81		A A	0000		0000	00000	0000 0	00000 0	B G B-Canada

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 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

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PATENT ACTIVITY REPORT

ID #: (1-5)	01598
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: ION FILTRATION CHROMATOGRAPHY FOR ENZYME PURIFICATION (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: (148-153)	DHHS INVENTION REPORT DATE: (154-159)
BOCK, R. KIRKEGARD, L. JOHNSON, T.	U.S. PATENT APPLICATION SERIAL NUMBER: (171-178)	DHHS GRANT/AWARD NUMBER(S): (179-223)
	U.S. PATENT NUMBER: (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: (233-238)	DHHS NUMBER: G-186-72 (239-250)

LICENSEE(S) <sup>1</sup> (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE <sup>3</sup> (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (IN \$000) (66-70)	COM- <sup>2</sup> MENT (71)
				0000		0000	00000	0000	00000	H

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 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

PATENT ACTIVITY REPORT

ID #: (1-5)	01593
INSTITUTION: (30-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: BIOLOGICAL SYNTHESIS OF L-TRIANGLE1-PYRROLINE-5-CARBOXYLIC-ACID (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: (148-153)	DHHS INVENTION REPORT DATE: (154-159)
BRILL, W.	U.S. PATENT APPLICATION SERIAL NUMBER: (171-178)	DHHS GRANT/AWARD NUMBER(S): AM12153 (179-223)
	U.S. PATENT NUMBER: (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: (233-238)	DHHS NUMBER: G-51-72 (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (57-61)	GROSS ROYAL. BY LICENSER CUR YR (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (66-70)	COM-MENT (71)
U.S. GOVERNMENT	10/17/72			0000		0000	00000	0000	00000	J

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 I = LICENSEE AWAITING FDA APPROVAL  
 J = LICENSEE TO GOVERNMENT  
 K = LICENSE TERMINATED  
 L = UNIVERSITY RIGHTS RELINQUISHED

PATENT ACTIVITY REPORT

IO #: (1-5)	01604
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/10/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 to 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: AUTOMATED ELECTRO OPTOMETRIC TARGET DISPLAY SYSTEM (6-79)		
INVENTOR(S): (100-147)	U. S. PATENT APPLICATION FILING DATE: (148-153)	DHHS INVENTION REPORT DATE: (154-159)
COLEMAN, P. SMITH, K.	U. S. PATENT APPLICATION SERIAL NUMBER: (171-178)	DHHS GRANT/AWARD NUMBER(S): (179-223)
	U. S. PATENT NUMBER: (224-232)	(FOR DHHS OFFICE USE ONLY)
	U. S. PATENT DATE OF ISSUE: (233-238)	DHHS NUMBER: (239-250)

1 LICENSEE(S) (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	3 LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYAL. BY LICENSER CUR. YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN \$000) (66-70)	2 COM- MENT (71)
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\* 'GROSS SALES' SHOULD BE INTERPRETED AS THE WHOLESALE REVENUES OF THE LICENSEE.  
 1 LIST ADDRESSES AND TELEPHONE NUMBERS ON THE BACK OF THIS PAGE.  
 2 COMMENTS CODES (SEE BELOW): STATUS OF DEVELOPMENT AND CURRENT USE (INCLUDING FOREIGN PATENTS)  
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 B = FOREIGN PATENT(S) APPLIED FOR F = US PATENT APPLICATION REJECTED LICENSEE J = LICENSEE TO GOVERNMENT  
 C = FOREIGN PATENT(S) GRANTED G = UNDER EVALUATION/TESTING K = LICENSE TERMINATED  
 D = NEGOTIATING WITH POTENTIAL LICENSEE H = US PATENT APPLICATION WILL NOT BE FILED L = UNIVERSITY RIGHTS RELINQUISHED  
 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE



PATENT ACTIVITY REPORT

ID #: (1-5)	01631
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: ENZYMOLOGIC ASSAY OF AMINOGLYCOSIDE ANTIBODIES IN SERUM... (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 11/13/79 (148-153)	DHHS INVENTION REPORT DATE: 07/02/79 (154-159)
DAVIES, J. HARFORD, S.	U.S. PATENT APPLICATION SERIAL NUMBER: 93758 (171-178)	DHHS GRANT/AWARD NUMBER(S): PCM7623617- <del>10076</del> (179-223) <i>NSF Grant No. NIH 10076</i>
	U.S. PATENT NUMBER: (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: (233-238)	DHHS NUMBER: G-218-79 (239-250)

LICENSEE(S) (8-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES* BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES* BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSER CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN \$000) (66-70)	COM- MENT (71)
U.S. Government	1/2/80		A	0000		0000	00000	0000	00000	A-US Canada Ireland Australia Denmark France Germany Neth. Britain Japan Switzerland

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 E = US PATENT APPLICATION PENDING  
 F = US PATENT APPLICATION REJECTED  
 G = UNDER EVALUATION/TESTING  
 H = US PATENT APPLICATION WILL NOT BE FILED  
 I = LICENSEE AWAITING FDA APPROVAL  
 J = LICENSEE TO GOVERNMENT  
 K = LICENSEE TERMINATED  
 L = UNIVERSITY RIGHTS RELINQUISHED  
 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

PATENT ACTIVITY REPORT

ID #: (1-5)	01546
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: GENERAL SELECTIVE PROCESS FOR GENE CLONING IN PROKARYOTES & EUKARYOTES (8-79)		
INVENTOR(S) <sup>1</sup> (100-147)	U.S. PATENT APPLICATION FILING DATE: (148-153)	DHHS INVENTION REPORT DATE: (154-159)
DAYIES, J. JIMENEZ, A.	U.S. PATENT APPLICATION SERIAL NUMBER: (171-178)	DHHS GRANT/AWARD NUMBER(S): (179-223)
	U.S. PATENT NUMBER: (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: (233-239)	DHHS NUMBER: G-26-81 (239-250)

LICENSEE(S) <sup>1</sup> (6-25)	DATE LICENSE AGREE- -MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE <sup>3</sup> (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSER CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN \$000) (66-70)	COM- MENT <sup>2</sup> (71)
				0000		0000	00000	0000	00000	H

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 C = FOREIGN PATENT(S) GRANTED  
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 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE  
 E = US PATENT APPLICATION PENDING  
 F = US PATENT APPLICATION REJECTED LICENSEE  
 G = UNDER EVALUATION/TESTING  
 H = US PATENT APPLICATION WILL NOT BE FILED  
 I = LICENSEE AWAITING FDA APPROVAL  
 J = LICENSEE TO GOVERNMENT  
 K = LICENSEE TERMINATED  
 L = UNIVERSITY RIGHTS RELINQUISHED

PATENT ACTIVITY REPORT

ID #: (1-5)	01573
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/60 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: COMPUTER VOICE RESPONSE TERMINAL (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 11/08/76 (148-153)	DHHS INVENTION REPORT DATE: 06/21/77 (154-159)
FRIEDMAN, R. CHEUNG, S.	U.S. PATENT APPLICATION SERIAL NUMBER: 739582 (171-178)	DHHS GRANT/AWARD NUMBER(S): 5P07RR0024908 (179-223)
	U.S. PATENT NUMBER: (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: (233-238)	DHHS NUMBER: G-121-77 (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREE- -MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES* BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES* BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (IN \$000) (66-70)	COM- MENT (71)
U.S. Government	6/2/77		A	0000		0000	00000	0000	00000	A

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 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

PATENT ACTIVITY REPORT

ID #: (1-5)	01583
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (185-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: RHYTHMAT-70-A (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: (148-153)	DHHS INVENTION REPORT DATE: (154-159)
FRIEDLANDER, B.	U.S. PATENT APPLICATION SERIAL NUMBER: (171-178)	DHHS GRANT/AWARD NUMBER(S): (179-223)
	U.S. PATENT NUMBER: (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: (233-238)	DHHS NUMBER: (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSER CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN \$000) (66-70)	COM- MENT (71)
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 C = FOREIGN PATENT(S) GRANTED G = UNDER EVALUATION/TESTING K = LICENSE TERMINATED  
 D = NEGOTIATING WITH POTENTIAL LICENSEE H = US PATENT APPLICATION WILL NOT BE FILED L = UNIVERSITY RIGHTS RELINQUISHED  
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PATENT ACTIVITY REPORT

ID #: (1-5)	01582
INSTITUTION: (20-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: A DENTAL APPLIANCE FOR SUPPORT OF INTRAORAL AIR PRESSURE SENSORS (8-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: (148-153)	DHHS INVENTION REPORT DATE: (154-159)
FRITCH, K.	U.S. PATENT APPLICATION SERIAL NUMBER: (171-173)	DHHS GRANT/AWARD NUMBER(S): (179-223)
	U.S. PATENT NUMBER: (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: (233-238)	DHHS NUMBER: (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE PER YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSER CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN \$000) (66-70)	COM-MENT (71)
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 I = LICENSEE TO GOVERNMENT  
 J = LICENSEE TERMINATED  
 K = UNIVERSITY RIGHTS RELINQUISHED  
 L = LICENSEE AWAITING FDA APPROVAL  
 M = LICENSEE TO GOVERNMENT  
 N = LICENSEE TERMINATED  
 O = UNIVERSITY RIGHTS RELINQUISHED  
 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

PATENT ACTIVITY REPORT

ID #: (1-5)	01512
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: ISOLATION OF CA <sup>++</sup> SPECIFIC IONOPHORE FROM MITOCHONDRIA (8-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: (148-153)	DHHS INVENTION REPORT DATE: (154-159)
GREEN, D. BLONDIN, G.	U.S. PATENT APPLICATION SERIAL NUMBER: (171-178)	DHHS GRANT/AWARD NUMBER(S): (179-223)
	U.S. PATENT NUMBER: (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: (233-238)	DHHS NUMBER: G-37-75 (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (57-61)	GROSS ROYALTY BY LICENSEE CUR YR (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (66-70)	COM- MENT (71)
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 J = LICENSEE TO GOVERNMENT  
 K = LICENSE TERMINATED  
 L = UNIVERSITY RIGHTS RELINQUISHED

PATENT ACTIVITY REPORT

ID #: (1-5)	01513
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: FAST NEUTRON COLLIMATOR (6-79)		
INVENTOR(S) <sup>1</sup> : (100-147)	U.S. PATENT APPLICATION FILING DATE: (148-153)	DHHS INVENTION REPORT DATE: (154-159)
KELSEY, C.	U.S. PATENT APPLICATION SERIAL NUMBER: (171-178)	DHHS GRANT/AWARD NUMBER(S): (179-223)
	U.S. PATENT NUMBER: (224-232)	5-Pol-CA-13469-02 2-Pol-CA-12099-02 (FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: (233-238)	DHHS NUMBER: (239-250)

LICENSEE(S) <sup>1</sup> (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES <sup>#</sup> BY LICENSEE <sup>#</sup> CURRENT YEAR (IN \$000) (53-58)	GROSS SALES <sup>#</sup> BY LICENSEE <sup>#</sup> TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (IN \$000) (66-70)	COM- MENT (71)
				0000		0000	00000	0000	00000	H A

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PATENT ACTIVITY REPORT

ID #: (1-5)	01596
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (185-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: TELEVISION SURVEILLANCE AND MONITORING SYSTEMS (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 10/26/71 (148-153)	DHHS INVENTION REPORT DATE: 04/27/72 (154-159)
KELSEY, C.	U.S. PATENT APPLICATION SERIAL NUMBER: 192039 (171-178)	DHHS GRANT/AWARD NUMBER(S): 2R01N50724203 (179-223)
	U.S. PATENT NUMBER: (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: (233-238)	DHHS NUMBER: G-206-72 (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (IN \$000) (66-70)	COM-MENT (71)
U.S. Government	9/8/72		A	0000		0000	00000	0000	00000	A

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 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE; I = LICENSEE AWAITING FDA APPROVAL; J = LICENSEE TO GOVERNMENT; K = LICENSE TERMINATED; L = UNIVERSITY RIGHTS RELINQUISHED



PATENT ACTIVITY REPORT

ID #: (1-5)	01610
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/31/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: SENSITIZATION OF RADIO THERMOLUMINESCENCE IN DOSIMETRY... (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 11/13/74 (148-153)	DHHS INVENTION REPORT DATE: 02/22/74 (154-159)
MAYHUGH, M. FULLERTON, G.	U.S. PATENT APPLICATION SERIAL NUMBER: 523322 (171-178)	DHHS GRANT/AWARD NUMBER(S): 5T01CA0510511 (179-223) 7452GH34585-NSF Grant No.
	U.S. PATENT NUMBER: 3962586 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 06/08/76 (233-238)	DHHS NUMBER: G-44-74 (239-250)

LICENSEE(S) (8-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES* BY LICENSEE CURRENT YEAR (53-56)	GROSS SALES* BY LICENSEE TOTAL TO DATE (57-61)	GROSS ROYALTY BY LICENSEE CUR YR (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (66-70)	COM- MENT (71)
U.S. Gov. (NSF)	12/23/74		A	0000		0000	00000	0000	00000	DHEW waived rights to NSF - 4/17/74

\* 'GROSS SALES' SHOULD BE INTERPRETED AS THE WHOLESALE REVENUES OF THE LICENSEE.  
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 STATUS OF DEVELOPMENT AND CURRENT USE (INCLUDING FOREIGN PATENTS)  
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 ### = UNDER EVALUATION/TESTING  
 #### = US PATENT APPLICATION WILL NOT BE FILED  
 I = LICENSEE AWAITING FDA APPROVAL  
 J = LICENSEE TO GOVERNMENT  
 K = LICENSEE TERMINATED  
 L = UNIVERSITY RIGHTS RELINQUISHED

PATENT ACTIVITY REPORT

ID #: (1-5)	01555
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARP
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: REGULATION OF INSECT REPRODUCTION AND/OR DEVELOPMENT (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: (148-153)	DHHS INVENTION REPORT DATE: (154-159)
PERLMAN, D. SYLVESTRE, H. SAKAI, T. NORRIS, D. BRIDGES, J.	U.S. PATENT APPLICATION SERIAL NUMBER: (171-178)	DHHS GRANT/AWARD NUMBER(S): (179-223)
	U.S. PATENT NUMBER: (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: (233-238)	DHHS NUMBER: G-169-74 (239-250)

LICENSEE(S) <sup>1</sup> (8-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES* BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES* BY LICENSEE TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (IN \$000) (66-70)	COM 2 MENT (71)
				0000		0000	00000	0000	00000	A H

\* GROSS SALES SHOULD BE INTERPRETED AS THE WHOLESALE REVENUES OF THE LICENSEE.  
 1 LIST ADDRESSES AND TELEPHONE NUMBERS ON THE BACK OF THIS PAGE.  
 2 COMMENTS CODES (SEE BELOW): STATUS OF DEVELOPMENT AND CURRENT USE (INCLUDING FOREIGN PATENTS)  
 A = DROPPED  
 B = FOREIGN PATENT(S) APPLIED FOR  
 C = FOREIGN PATENT(S) GRANTED  
 D = NEGOTIATING WITH POTENTIAL LICENSEE  
 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE  
 E = US PATENT APPLICATION PENDING  
 F = US PATENT APPLICATION REJECTED LICENSEE  
 G = UNDER EVALUATION/TESTING  
 H = US PATENT APPLICATION WILL NOT BE FILED  
 I = LICENSEE AWAITING FDA APPROVAL  
 J = LICENSEE TO GOVERNMENT  
 K = LICENSEE TERMINATED  
 L = UNIVERSITY RIGHTS RELINQUISHED

PATENT ACTIVITY REPORT

IC #: (1-5)	01591
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (150-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: MULTIPLE SPECIMEN TABLE WITH LIQUID NITROGEN TANK (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: (148-153)	DHHS INVENTION REPORT DATE: (154-159)
PAIK, S.	U.S. PATENT APPLICATION SERIAL NUMBER: (171-178)	DHHS GRANT/AWARD NUMBER(S): (179-223)
	U.S. PATENT NUMBER: (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: (233-238)	DHHS NUMBER: G-83-72 (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREE- MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (IN \$000) (66-70)	COM- MENT (71)
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P = DROPPED

B = FOREIGN PATENT(S) APPLIED FOR

C = FOREIGN PATENT(S) GRANTED

D = NEGOTIATING WITH POTENTIAL LICENSEE

3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

H = US PATENT APPLICATION PENDING

I = US PATENT APPLICATION REJECTED

J = UNDER EVALUATION/TESTING

K = US PATENT APPLICATION WILL NOT BE FILED

L = LICENSE AWAITING FDA APPROVAL

M = LICENSE TO GOVERNMENT

N = LICENSE TERMINATED

O = UNIVERSITY RIGHTS RELINQUISHED

PATENT ACTIVITY REPORT

ID #1: (1-5)	
INSTITUTION: (80-99)	<i>U. of Wisconsin</i>
DHHS IPA NUMBER: (150-154)	
DATE DHHS IPA SIGNED: (163-170)	<i>12/1/68</i>
REPORT PREPARER:	<i>WARF</i>
PERIOD COVERED:	<i>10/1/80 TO 9/30/81</i>
INSTITUTION TYPE:	<i>University</i>

INVENTION: (6-79) <i>Antibiotic Production by Mycoplasma Species</i>		
INVENTOR(S): (100-147)  <i>Perlman, D</i>	U.S. PATENT APPLICATION FILING DATE: (148-153)	DHHS INVENTION REPORT DATE: (154-159) <i>11/18/71</i>
	U.S. PATENT APPLICATION SERIAL NUMBER: (171-178)	DHHS GRANT/AWARD NUMBER(S): (179-223) <i>AI 932002</i>
	U.S. PATENT NUMBER: (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: (233-238)	DHHS NUMBER: (239-250)

LICENSEE(S) (6-25)	DATE LICENSEE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSER CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN \$000) (66-70)	COM- MENT (71)
										H A

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PATENT ACTIVITY REPORT

ID #: (1-5)	01578
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: METHOD FOR INCREASING DRUG AVAILABILITY IN COMBINATION W/HIGHLY PROTEIN... (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 11/27/70 (148-153)	DHHS INVENTION REPORT DATE: 08/08/69 (154-159)
PERRIN, J.	U.S. PATENT APPLICATION SERIAL NUMBER: 93473 (171-178)	DHHS GRANT/AWARD NUMBER(S): FR5456 (179-223)
	U.S. PATENT NUMBER: (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: (233-238)	DHHS NUMBER: (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (57-61)	GROSS ROYAL BY LICENSER CUR. YR. (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (66-70)	COM-MENT (71)
U.S. Government	3/15/71			0000		0000	00000	0000	00000	L

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 J = LICENSEE TO GOVERNMENT  
 K = LICENSEE TERMINATED  
 L = UNIVERSITY RIGHTS RELINQUISHED

PATENT ACTIVITY REPORT

ID #: (1-5)	01581
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/60 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: PROCESS FOR CHILLPROOFING BEER WITH INSOLUBILIZED ENZYMES (6-79)		
INVENTOR(S): (100-147)	U. S. PATENT APPLICATION FILING DATE: 05/22/70 (148-153)	DHHS INVENTION REPORT DATE: 07/15/70 (154-159)
RICHARDSON, T.	U. S. PATENT APPLICATION SERIAL NUMBER: 39881 (171-178)	DHHS GRANT/AWARD NUMBER(S): 1R010012301 (179-223)
	U. S. PATENT NUMBER: (224-232)	(FOR DHHS OFFICE USE ONLY)
	U. S. PATENT DATE OF ISSUE: (233-238)	DHHS NUMBER: (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREE- -MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSER CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN \$000) (66-70)	COM- MENT (71)
U.S. Government	9/8/70		A	0000		0000	00000	0000	00000	A

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 J = LICENSEE TO GOVERNMENT  
 K = LICENSE TERMINATED  
 L = UNIVERSITY RIGHTS RELINQUISHED

PATENT ACTIVITY REPORT

ID #: (1-5)	
INSTITUTION: (80-99)	<i>U of Wisconsin</i>
DHHS IPA NUMBER: (150-164)	
DATE DHHS IPA SIGNED: (165-170)	<i>12/1/68</i>
REPORT PREPARER:	<i>WAPF</i>
PERIOD COVERED:	<i>10/1/60 TO 9/30/61</i>
INSTITUTION TYPE:	<i>University</i>

INVENTION: <i>Photoreactor - television speech movement transducer for lips, tongue, jaw and larynx for diagnostic treatment and training of speech disorders and speech re-education</i>		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: (148-153)	DHHS INVENTION REPORT DATE: (154-159)
<i>Smith, K.</i>		<i>7/7/71</i>
	U.S. PATENT APPLICATION SERIAL NUMBER: (171-178)	DHHS GRANT/AWARD NUMBER(S): (179-223)
		<i>RO2355 P7003</i>
	U.S. PATENT NUMBER: (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: (233-238)	DHHS NUMBER: (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYALTY BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (IN \$000) (66-70)	COM-MENT (71)
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 P = UNDER EVALUATION/TESTING  
 Q = US PATENT APPLICATION WILL NOT BE FILED  
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 S = US PATENT APPLICATION  
 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

PATENT ACTIVITY REPORT

IC #: (1-5)	01586
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/60 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: STRAIN-GAUGE IIP TRANSDUCER (6-79)		
INVENTOR(S): (100-147)	U. S. PATENT APPLICATION FILING DATE: (148-153)	DHHS INVENTION REPORT DATE: (154-159)
SMITH, K.	U. S. PATENT APPLICATION SERIAL NUMBER: (171-178)	DHHS GRANT/AWARD NUMBER(S): (179-223)
	U. S. PATENT NUMBER: (224-232)	(FOR DHHS OFFICE USE ONLY)
	U. S. PATENT DATE OF ISSUE: (233-238)	DHHS NUMBER: (239-250)

LICENSEE(S) (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYAL. BY LICENSEE CUR. YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (IN \$000) (66-70)	COM- MENT (71)
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 J = LICENSEE TO GOVERNMENT  
 K = LICENSEE TERMINATED  
 L = UNIVERSITY RIGHTS RELINQUISHED  
 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE



PATENT ACTIVITY REPORT

ID #: (1-5)	01585
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: STRAIN-GAUGE JAW MOVEMENT TRANSDUCER (6-79)		
INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: (148-153)	DHHS INVENTION REPORT DATE: (154-159)
SMITH, K.	U.S. PATENT APPLICATION SERIAL NUMBER: (171-178)	DHHS GRANT/AWARD NUMBER(S): (179-223)
	U.S. PATENT NUMBER: (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: (233-238)	DHHS NUMBER: (239-250)

LICENSEE(S) (8-25)	DATE LICENSE AGREE- -MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYAL. BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN \$000) (66-70)	COM- MENT (71)
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1 LIST ADDRESSES AND TELEPHONE NUMBERS ON THE BACK OF THIS PAGE.

2 COMMENTS CODES (SEE BELOW):

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3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

STATUS OF DEVELOPMENT AND CURRENT USE (INCLUDING FOREIGN PATENTS)

1 = US PATENT APPLICATION PENDING  
 2 = US PATENT APPLICATION REJECTED  
 3 = UNDER EVALUATION/TESTING  
 4 = US PATENT APPLICATION WILL NOT BE FILED

I = LICENSEE AWAITING FDA APPROVAL  
 J = LICENSEE TO GOVERNMENT  
 K = LICENSE TERMINATED  
 L = UNIVERSITY RIGHTS RELINQUISHED

PATENT ACTIVITY REPORT

IO #: (1-5)	01572
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/60 TO 9/30/68
INSTITUTION TYPE:	UNIVERSITY

INVENTION: AN IMPROVED PROCESS FOR THE PREPARATION OF TRIACETONEAMINE (6-79)		
INVENTOR(S): (100-147)	U. S. PATENT APPLICATION FILING DATE: (148-153)	DHHS INVENTION REPORT DATE: (154-159)
SOSNOVSKY, G. KONIECZNY, M.	U. S. PATENT APPLICATION SERIAL NUMBER: (171-178)	DHHS GRANT/AWARD NUMBER(S): (179-223)
	U. S. PATENT NUMBER: (224-232)	(FOR DHHS OFFICE USE ONLY)
	U. S. PATENT DATE OF ISSUE: (233-238)	DHHS NUMBER: G-99-77 (239-250)

LICENSEE(S) (8-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE (42)	CAPITAL COMMITMENT BY LICENSEE TO DEVELOP PATENT (IN \$000) (43-46)	DATE FIRST COMMERCIAL SALE (47-52)	GROSS SALES* BY LICENSEE CURRENT YEAR (IN \$000) (53-56)	GROSS SALES* BY LICENSEE TOTAL TO DATE (IN \$000) (57-61)	GROSS ROYAL. BY LICENSEE CUR YR (IN \$000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSEE TO DATE (IN \$000) (66-70)	COM- MENT (71)
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 C = FOREIGN PATENT(S) GRANTED H = UNDER EVALUATION/TESTING K = LICENSE TERMINATED  
 D = NEGOTIATING WITH POTENTIAL LICENSEE L = US PATENT APPLICATION WILL NOT BE FILED L = UNIVERSITY RIGHTS RELINQUISHED  
 3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE