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 Precursers of Enterobacterial Lipid A

INVENTOR(S): (100-147) Anderson, L. Nashed, 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) [1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE [3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT [2] (71)
U.S. Government	5/1/81		A							E

* '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
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 = LICENSE TERMINATED
L = UNIVERSITY RIGHTS RELINQUISHED

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

PATENT ACTIVITY REPORT

ID #: (1-5)	01568
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 FROST DAMAGE OF PLANTS (6-79)

INVENTOR(S): [1] (100-147) ARNY, D. LINDOW, S.	U.S. PATENT APPLICATION FILING DATE: 08/02/76 (148-153) U.S. PATENT APPLICATION SERIAL NUMBER: 710414 (171-178) U.S. PATENT NUMBER: 4045910 (224-232) U.S. PATENT DATE OF ISSUE: 09/06/77 (233-238)	DHHS INVENTION REPORT DATE: 09/02/76 (154-159) DHHS GRANT/AWARD NUMBER(S): GM0721501 (179-223) (FOR DHHS OFFICE USE ONLY) DHHS NUMBER: G-226-76 (239-250)

LICENSEE(S) [1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE [3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT [2] (71)
MICROLIFE TCHNICS IN	01/01/80		B	0000		0000	00000	0000	00000	G
U.S. Government	9/8/76		A							C-Canada

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Microfi Technics, 1833 57th St, Sarasota, Florida 33578 - (813) 355-8561

PRYOR / PRINTED IN U.S.A.

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)[1]: (100-147) ARNY, D. LINDOW, S.	U.S. PATENT APPLICATION FILING DATE: 07/03/78 (148-153)	DHHS INVENTION REPORT DATE: 08/14/78 (154-159)
	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)[1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE[3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT[2] (71)
Microlife Technics	1/1/80		B	0000		0000	00000	0000	00000	G
U.S. Government	9/11/78		A							

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PATENT ACTIVITY REPORT

ID #: (1-5)	01574
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 PREPARING A REAGENT FOR P.L.T. (6-79)

INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: ~~06/17/76~~ 7/11/77 (148-153)	DHHS INVENTION REPORT DATE: 06/21/77 (154-159)
BACH, M. BACH, F.	U.S. PATENT APPLICATION SERIAL NUMBER: ~~697029~~ 84436 (171-178)	DHHS GRANT/AWARD NUMBER(S): NIHA108439 PHSHL06314 NIHA100567 NIHCA16836 (179-223)
	U.S. PATENT NUMBER: 4124701 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 11/07/78 (233-238)	DHHS NUMBER: G-123-77 (239-250)

LICENSEE(S) [1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE [3] (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 ROYAL. BY LICENSER CUR. YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT [2] (71)
BIO-TEST SERUM INST.	4/1/78		B	0000		0000	00000	0000	00000	C K
U.S. Government	6/21/77		A							

CONFIDENTIAL

A - Czech
Denmark
France
E. Ger.
W. Ger.
Holland
Hungary
Norway
Poland
Spain
Sweden
Switz

B - Japan

C - Canada
Gt. Britain
Rhodesia
Australia
Austria
Belgium

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Behring-Serum-Institut GmbH, Flughafenstrasse 4, 6 Frankfurt am Main 73, W. Germany

PATENT ACTIVITY REPORT

ID #: (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 (6-79)

INVENTOR(S): [1] (100-147)	U.S. PATENT APPLICATION FILING DATE: 08/24/78 (148-153)	DHHS INVENTION REPORT DATE: 11/08/71 (154-159)
BOCK, R. H. HECT, S. X ET AL	U.S. PATENT APPLICATION SERIAL NUMBER: 154271 (171-178)	DHHS GRANT/AWARD NUMBER(S): GM12395 (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) [1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE [3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT [2] (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

CONFIDENTIAL

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Burroughs Wellcome Co., 3030 Cornwallis Rd, Research Triangle Park, NC 27709 - (919) 541-9090

Dow-Chemical, Midland, Michigan 48640

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): 1 (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) AMAI10076
	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) 1 (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE 3 (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT 2 (71)
U.S. Government	1/30/81		A	0000		0000	00000	0000	00000	E

A - Canada
Ireland
Australia
Denmark
France
Germany
Gt. Britain
Japan
Sweden

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

PATENT ACTIVITY REPORT

ID #: (1-5) 01602

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

INVENTOR(S): [1] (100-147) DELUCA, H.

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

U.S. PATENT APPLICATION SERIAL NUMBER: 379621 (171-178)

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) [1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE [3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT [2] (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
~~UPJOHN CO.~~				0000		0000	00000	0000	00000	
~~HOFFMAN LAROCHE~~				0000		0000	00000	0000	00000	
~~CHUGAI~~				0000		0000	00000	0000	00000	C
~~LEO~~				0000		0000	00000	0000	00000	C
~~DIAMOND SHAMROCK~~				0000		0000	00000	0000	00000	
U.S. Government	7/25/73		A							C-France Germany Gt. Britain

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PATENT ACTIVITY REPORT

ID #: (1-5) 01597

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: 24,25-DIHYDROXYCHOLECALCIFEROL (6-79)

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

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

U.S. PATENT APPLICATION SERIAL NUMBER: 250661 (171-178)

U.S. PATENT NUMBER: 3715374 (224-232)

U.S. PATENT DATE OF ISSUE: 02/06/73 (233-238)

DHHS INVENTION REPORT DATE: 07/06/72 (154-159)

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

(FOR DHHS OFFICE USE ONLY)

DHHS NUMBER: G-73-71 (239-250)

LICENSEE(S)[1] (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE[3] (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)	COMMENT[2] (71)
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	
~~HOFFMAN LAROCHE~~				0000		0000	00000	0000	00000	
~~CHUGAI~~				0000		0000	00000	0000	00000	E
~~LEO~~				0000		0000	00000	0000	00000	D
~~DIAMOND SHAMROCK~~				0000		0000	00000	0000	00000	
U.S. Government	9/8/72		A							
Hoffmann LaRoche (Swit)	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)[1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE[3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT[2] (71)
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	
~~CHUGAI~~				0000		0000	00000	0000	00000	e
~~LEO~~				0000		0000	00000	0000	00000	e
~~DIAMOND SHAMROCK~~				0000		0000	00000	0000	00000	
U.S. Government	11/12/71		A							

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

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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): [1] (100-147)
DELUCA, H.
HOLICK, M.
GARABEDIAN, M.

U.S. PATENT APPLICATION FILING DATE: 02/14/72 (148-153)

U.S. PATENT APPLICATION SERIAL NUMBER: 226183 (171-178)

U.S. PATENT NUMBER: 3743661 (224-232)

U.S. PATENT DATE OF ISSUE: 07/03/73 (233-238)

DHHS INVENTION REPORT DATE: 02/11/72 (154-159)

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

(FOR DHHS OFFICE USE ONLY)

DHHS NUMBER: G-14-72 (239-250)

LICENSEE(S) [1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE [3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT [2] (71)
ROUSSEL UCLAF	11/1/71			0000		0000	00000	0000	00000	D
~~UPJOHN CO.~~				0000		0000	00000	0000	00000	
TEVA LTD.	8/1/79			0000		0000	00000	0000	00000	D
~~HOFFMAN LAROCHE~~				0000		0000	00000	0000	00000	
~~CHUGAI~~				0000		0000	00000	0000	00000	E
~~LEO~~				0000		0000	00000	0000	00000	E
~~DIAMOND SHAMROCK~~				0000		0000	00000	0000	00000	
U.S. Government	4/17/72		A							C-Canada

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.

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

INSTITUTION: (6-99) 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) 1α-Hydroxy-2β-Fluorocholecalciferol

INVENTOR(S): (100-147) DeLuca, H. Ikekawa, N. 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 8019 INT 76 05793

(FOR DHHS OFFICE USE ONLY)

DHHS NUMBER: (239-250)

LICENSEE(S)[1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE[3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT[2] (71)
U.S. Government	1/15/81		A							B-Australia, Israel, N. Zealand, Belgium, France, Gt. Brit, Ireland, Italy, Kenya, Holland, Japan, Swiss; A-Denmark; C-Belgium

PATENT ACTIVITY REPORT

ID #: (1-5) 01487

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: 24,24-DIFLUORO-25-HYDROXYCHOLECALCIFEROL (6-79)

INVENTOR(S): [1] (100-147)
DELUCA, H.
IKEKAWA, N.
ET AL

U.S. PATENT APPLICATION FILING DATE: 3/5/79 (148-153)

U.S. PATENT APPLICATION SERIAL NUMBER: 017,168 (171-178)

U.S. PATENT NUMBER: 4196133 (224-232)

U.S. PATENT DATE OF ISSUE: 04/01/80 (233-238)

DHHS INVENTION REPORT DATE: 12/04/79 (154-159)

DHHS GRANT/AWARD NUMBER(S): 8019INT7605793 (179-223) AM14881

(FOR DHHS OFFICE USE ONLY)

DHHS NUMBER: G-32-80 (239-250)

LICENSEE(S)[1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE[3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT[2] (71)
U.S. Government	12/5/79		A	0000.		0000	00000	0000	00000	D

B - Australia
Canada
Israel
N. Zealand
Gt. Brit.
Ireland
France
Italy
Denmark
Ger.
Holland
Japan
Switz.
Sweden
C - Belgium

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3 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: WARF

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

INSTITUTION TYPE: UNIVERSITY

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

INVENTOR(S)[1]: (100-147)
DELUCA, H.
JONES, G.
SCHNOES, H.

U.S. PATENT APPLICATION FILING DATE: 05/24/74 (148-153)

U.S. PATENT APPLICATION SERIAL NUMBER: 472953 (171-178)

U.S. PATENT NUMBER: 3880894 (224-232)

U.S. PATENT DATE OF ISSUE: 04/29/75 (233-238)

DHHS INVENTION REPORT DATE: 06/13/74 (154-159)

DHHS GRANT/AWARD NUMBER(S): 5P01AM14401 5P01AM15512 (179-223)

(FOR DHHS OFFICE USE ONLY)

DHHS NUMBER: G-152-74 (239-250)

LICENSEE(S)[1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE[3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT[2] (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	C
~~UPJOHN~~				0000		0000	00000	0000	00000	
~~CHUGAI~~				0000		0000	00000	0000	00000	C
~~LEO~~				0000		0000	00000	0000	00000	C
~~DIAMOND SHAMROCK~~				0000		0000	00000	0000	00000	
U.S. Government	6/10/74		A							

C - France
Germany
Gt. 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 = LICENSE TERMINATED
L = UNIVERSITY RIGHTS RELINQUISHED
3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

Hoffmann-La Roche & Co., CH-4002 Basle, Switz - 061 27 11 22

PATENT ACTIVITY REPORT

ID #: (1-5)	01510
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: METHOD OF TREATING MILK FEVER IN DAIRY CATTLE WITH 1α-HYROXYCHOLECALCIFEROL (6-79)

INVENTOR(S): [1] (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, N.	U.S. PATENT APPLICATION SERIAL NUMBER: 435099 (171-178)	DHHS GRANT/AWARD NUMBER(S): 5P01AM15512 (179-223) 5P01AM14881
	U.S. PATENT NUMBER: 3879548 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 04/22/75 (233-238)	DHHS NUMBER: G-151-74 (239-250)

LICENSEE(S) [1] (5-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE [3] (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)	COMMENT [2] (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 ~~Pharm. Ltd.~~	8/1/79		A	0000		0000	00000	0000	00000	e
~~UPJOHN CO.~~				0000		0000	00000	0000	00000	
DIAMOND SHAMROCK				0000		0000	00000	0000	00000	
U.S. Government	6/10/74		A							

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

Teva Pharmaceuticals Industries Ltd., P.O.B. 1423, Tel Aviv, Israel - 03-925021

PRYOR / PRINTED IN U.S.A.

PATENT ACTIVITY REPORT

ID #: (1-5) 01619

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: MTHD OF TREATING MILK FEVER IN DAIRY CATTLE W/ 1,25-DIHYDROXY-CHOLECAL... (6-79)

INVENTOR(S): 1 (100-147)

DELUCA, H.

JORGENSEN, N.

U.S. PATENT APPLICATION FILING DATE: 07/14/78 7 (148-153)

U.S. PATENT APPLICATION SERIAL NUMBER: 815587 (171-178)

U.S. PATENT NUMBER: 4110446 (224-232)

U.S. PATENT DATE OF ISSUE: 08/29/78 (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-140-78 (239-250)

LICENSEE(S) 1 (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE 3 (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT 2 (71)
HOFFMAN LAROCHE (US)	10/1/75		A	0000		0000	00000	0000	00000	
ROUSSEL UCLAF	11/1/71		A	0000		0000	00000	0000	00000	C
HOFFMAN LAROCHE (Switz)	9/1/77		A	0000		0000	00000	0000	00000	B
ABBOTT LABS	1/1/78		A	0000		0000	00000	0000	00000	
~~UPJOHN~~				0000		0000	00000	0000	00000	
~~LEO~~				0000		0000	00000	0000	00000	B
~~CHUGAI~~				0000		0000	00000	0000	00000	C
U.S. Government	3/31/78		A							

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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 #: (1-5) 01492

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: PROCESS FOR PREPARING CALCITROIC ACID AND ESTERS THEREOF (6-79)

INVENTOR(S): [1] (100-147)
DELUCA, H.
SCHNOES, H.
ESVELT, R.

U.S. PATENT APPLICATION FILING DATE: 02/20/80 (148-153)

U.S. PATENT APPLICATION SERIAL NUMBER: 122921 (171-178)

U.S. PATENT NUMBER: 4260804 (224-232)

U.S. PATENT DATE OF ISSUE: 4/7/81 (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-155-80 (239-250)

LICENSEE(S) [1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE [3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT [2] (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	4/21/80		A							

B- France
Gt. Brit.
Ireland
Israel
Japan
Germany

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F = US PATENT APPLICATION REJECTED LICENSEE
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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)	01493
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: 1 ALPHA-HYDROXYCALCIDIC ACID AND ESTERS THEREOF (6-79)

INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 12/29/78 (148-153)	DHHS INVENTION REPORT DATE: 04/18/80 (154-159)
DELUCA, H. SCHNOES, H. ESVELT, R.	U.S. PATENT APPLICATION SERIAL NUMBER: 000440 (171-178)	DHHS GRANT/AWARD NUMBER(S): AM14881 (179-223)
	U.S. PATENT NUMBER: 4209634 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 06/24/80 (233-238)	DHHS NUMBER: G-159-80 (239-250)

LICENSEE(S) [1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE [3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT [2] (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	D
ROUSSEL UCLAF	11/1/71		A	0000		0000	00000	0000	00000	C B
CHUGAI	11/1/75		A	0000		0000	00000	0000	00000	D B
U.S. Government	4/21/80		A							B - Israel France Gt. Brit. Ireland Germany Japan Switz.

CONFIDENTIAL

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F = US PATENT APPLICATION REJECTED
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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)	01584
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: 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)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 10/10/72 (233-238)	DHHS NUMBER: G-75-71 (239-250)

LICENSEE(S) [1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE [3] (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 ROYAL. BY LICENSOR CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSOR TO DATE (IN $000) (66-70)	COM-MENT [2] (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	11/21/72		A	0000		0000	00000	0000	00000	
~~LEO~~				0000		0000	00000	0000	00000	E
~~CHUGAI~~				0000		0000	00000	0000	00000	E
~~UPJOHN CO.~~				0000		0000	00000	0000	00000	
Hoffmann-La Roche Emtz)	9/1/77		A		11/78					
U.S. Government	11/12/71		A							

A - Holland
C - Canada
France
W. Germany
Gt. Britain

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Total gross royalties - $631,820.00
Expenses - $105,149.00

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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 (INCLUDING FOREIGN PATENTS)
A = DROPPED
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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
3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

PATENT ACTIVITY REPORT

ID #: (1-5) 01516

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: (6-79) 3-DEOXY-1 ALPHA-HYDROXYCHOLESCALCIFEROL

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

U.S. PATENT APPLICATION FILING DATE: ~~06/17/74~~ 3/7/77 (148-153)

U.S. PATENT APPLICATION SERIAL NUMBER: ~~480211~~ Re. 774996 (171-178)

U.S. PATENT NUMBER: ~~3906014~~ Re. 30538 (224-232)

U.S. PATENT DATE OF ISSUE: ~~09/16/75~~ 3/3/81 (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-262-74 (239-250)

LICENSEE(S) [1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE [3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT [2] (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~~
~~HOFFMANN LAROCHE~~				0000		0000	00000	0000	00000	
~~LEO~~				0000		0000	00000	0000	00000	~~C~~
~~CHUGAI~~				0000		0000	00000	0000	00000	~~C~~
~~ABBOTT LABS~~				0000		0000	00000	0000	00000	
~~AMERSHAM/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 Germany Gt. Britain

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

Amersham Corporation, 2636 S. Clearbrook Dr., Arlington Heights, Illinois 60005 - (312) 593-6300

Abbott Laboratories, No. Chicago, Ill. 60064 - (312) 937-6100

PATENT ACTIVITY REPORT

ID # (1-5)	01515
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: 1 (6-79) ALPHA-HYDROXYERGOCALCIFEROL *and Processes for Preparing Same*

1 INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: 06/14/74 (148-153)	DHHS INVENTION REPORT DATE: 08/28/74 (154-159)
DELUCA, H. SHNOES, H. LAM, H.	U.S. PATENT APPLICATION SERIAL NUMBER: 479224 (171-178)	DHHS GRANT/AWARD NUMBER(S): AM14881 (179-223)
	U.S. PATENT NUMBER: 3907843 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 09/23/75 (233-238)	DHHS NUMBER: G-263-74 (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 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 LICENSOR CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSOR TO DATE (IN $000) (66-70)	2 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
HOFFMAN LAROCHE				0000		0000	00000	0000	00000	C
~~ABBOTT LABS~~				0000		0000	00000	0000	00000	
~~AMERSHAM/SEARLE~~				0000		0000	00000	0000	00000	
~~DIAMOND SHAMROCK~~				0000		0000	00000	0000	00000	
U.S. Government	11/13/74		A							

C - France
Germany
Gt. Britain

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Total gross royalties $8,000.00
Efgenes - $20,893.00

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

Revlon Health Care Group, 1 Scarsdale Rd., Tuckahoe, NY 10707 - (914) 779-6300

PRYOR / PRINTED IN U.S.A.

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) Vitamin D Derivatives

INVENTOR(S): (100-147)
DeLuca, H.
Schnoes, H.
LeVan, L.

U.S. PATENT APPLICATION FILING DATE: (148-153) 11/17/80

U.S. PATENT APPLICATION SERIAL NUMBER: (171-178) 207169

U.S. PATENT NUMBER: (224-232) 4292250

U.S. PATENT DATE OF ISSUE: (233-238) 9/29/81

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) [1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE [3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT [2] (71)
U.S. Government	1/15/81		A							

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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 #: (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-AZA-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: 781008 (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)

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 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 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	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)
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- 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 = LICENSE TERMINATED
- 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)
DELUCA, H.
SCHNOES, H.
ONISKO, B.

U.S. PATENT APPLICATION FILING DATE: 05/19/78 (148-153)

U.S. PATENT APPLICATION SERIAL NUMBER: 907893 (171-178)

U.S. PATENT NUMBER: 4217288 (224-232)

U.S. PATENT DATE OF ISSUE: 8/12/80 (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-146-78 (239-250)

LICENSEE(S) [1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE [3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT [2] (71)
U.S. Government	3/31/78		A	0000		0000	00000	0000	00000	B-Gt. Britain, France, Holland, Germany, Japan

* '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

PATENT ACTIVITY REPORT

ID #: (1-5) 01592

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: 1 ALPHA-HYDROXYCHOLECALCIFEROL (6-79)

INVENTOR(S): 1 (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 (171-178)

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) 1 (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE 3 (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT 2 (71)
LEO	1/1/74		A	0000	2/78	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
UPJOHN				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
~~DIAMOND SHAMROCK~~				0000		0000	00000	0000	00000	B

B-Japan
C-Canada
Denmark
France
Germany
Gt. 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.
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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 = LICENSE TERMINATED
L = UNIVERSITY RIGHTS RELINQUISHED
3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

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:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: PROCESS FOR PREPARING 1 ALPHA-HYDROXYLATED COMPOUNDS (6-79)

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

LICENSEE(S) [1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE [3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT [2] (71)
HOFFMANN LAROCHE (US)	10/1/75		A	0000		0000	00000	0000	00000	E
LEO	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	EB
ABBOTT LABS	1/1/78		A	0000		0000	00000	0000	00000	
TEVA	8/1/79		A	0000		0000	00000	0000	00000	E
~~MERSHAN/SEARLE~~	~~11/21/72~~		A	0000		0000	00000	0000	00000	
Hoffmann La Roche (Swetz)	9/1/77		A							B-France Holland
U.S. Government	8/26/80		A							C-Belgium
Revlon	6/1/80		A							

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

PATENT ACTIVITY REPORT

ID #: (1-5) 01617

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: PROCESS FOR PREPARING 1ALPHA-HYDROXYLATED COMPOUNDS (6-79)

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

U.S. PATENT APPLICATION FILING DATE: 12/13/78 (148-153)

U.S. PATENT APPLICATION SERIAL NUMBER: ~~067161~~ 968738 (171-178)

U.S. PATENT NUMBER: 4202829 (224-232)

U.S. PATENT DATE OF ISSUE: 05/13/80 (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-145-78 (239-250)

LICENSEE(S) 1 (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE 3 (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT 2 (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
ROUSSEL 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
~~PERSHAN/SEARLE~~				0000		0000	00000	0000	00000	
Revlon	6/1/80		A							B-Canada

CONFIDENTIAL

* '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

PATENT ACTIVITY REPORT

ID #: (1-5) 01618

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 1ALPHA-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: ~~869448~~ 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)[1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE[3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT[2] (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	11/1/75		A	0000		0000	00000	0000	00000	&B
ROUSSEL UCLAF	11/1/71		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	&
~~ANEPSHAM/SEARLE~~				0000		0000	00000	0000	00000	
Revlon	6/1/80		A							

B - Australia Canada Finland Gt. Brit. France Ireland Germany Switz Japan Denmark Sweden

C - N. Zealand Belgium

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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

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

PATENT ACTIVITY REPORT

ID #: (1-5)	01489
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: DERIVATIVES OF 25-HYDROXYCHOLECALCIFEROL (6-79)

INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: (148-153) 9/4/79	DHHS INVENTION REPORT DATE: 01/29/80 (154-159)
DELUCA, H. SCHNOES, H. ET AL	U.S. PATENT APPLICATION SERIAL NUMBER: (171-178) 071972	DHHS GRANT/AWARD NUMBER(S): AM14881 (179-223)
	U.S. PATENT NUMBER: (224-232) 4224234	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: (233-238) 09/23/80	DHHS NUMBER: G-156-80 (239-250)

LICENSEE(S) [1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE [3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT [2] (71)
UPJOHN	9/1/73		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	11/1/75		A	0000		0000	00000	0000	00000	A
ROUSSEL UCLAF	11/1/71		A	0000		0000	00000	0000	00000	A
DIAMOND SHAMROCK	11/1/76		A	0000		0000	00000	0000	00000	
US Government	4/21/80		A							

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- 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
- 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

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

Hoffmann-La Roche Inc., Nutley, NJ 07110 - (201)-235-5000

Leo Pharmaceutical Products, DK-2750 Ballerup, Denmark - +4529445888

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

Roussel UCLAF, 35, Boulevard des Invalides, 75007, Paris, France - (1) 55591 55

Diamond Shamrock Corporation, 1100 Superior Ave., Cleveland, Ohio 44114 - (216) 694-5000

14113 PRYOR / PRINTED IN U.S.A.

PATENT ACTIVITY REPORT

ID #: (1-5)	01490
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: DERIVATIVES OF 25-HYDROXYCHOLECALCIFEROL (6-79)

INVENTOR(S): 1 (100-147) DELUCA, H. SCHNOES, H. ET AL	U.S. PATENT APPLICATION FILING DATE: 9/4/79 (148-153)	DHHS INVENTION REPORT DATE: 01/29/80 (154-159)
	U.S. PATENT APPLICATION SERIAL NUMBER: 071973 (171-178)	DHHS GRANT/AWARD NUMBER(S): AM14881 (179-223)
	U.S. PATENT NUMBER: 4229359 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 10/21/80 (233-238)	DHHS NUMBER: G-158-80 (239-250)

LICENSEE(S) 1 (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE 3 (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT 2 (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	E
ROUSSEL UCLAF	11/1/76		A	0000		0000	00000	0000	00000	E
DIAMOND SHAMROCK	11/1/71		A	0000		0000	00000	0000	00000	
U.S. Government	4/21/80		A							

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

PATENT ACTIVITY REPORT

ID #: (1-5) 01549

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 1 ALPHA-HYDROXY-VITAMIN-D-COMPDS FROM 1 ALPHA-... (6-79)

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

U.S. PATENT APPLICATION FILING DATE: 9/10/79 (148-153)

U.S. PATENT APPLICATION SERIAL NUMBER: 073839 (171-178)

U.S. PATENT NUMBER: ~~073839~~ 4234495 (224-232)

U.S. PATENT DATE OF ISSUE: 11/18/80 ~~09/10/79~~ (233-238)

DHHS INVENTION REPORT DATE: 03/06/80 (154-159)

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

(FOR DHHS OFFICE USE ONLY)

DHHS NUMBER: G-217-80 (239-250)

LICENSEE(S) 1 (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 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 LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	2 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
ROUSSEL UCLAF	11/1/75		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 B
~~AMERSHAM/SEARLE~~				0000		0000	00000	0000	00000	
U.S. Government	6/17/80		A							B - Gt. Britain Ireland Israel

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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)	01550
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-HYDROXYCHOLECALCIFEROL-26,23 LACTONE (6-79)

INVENTOR(S): [1] (100-147)	U.S. PATENT APPLICATION FILING DATE: 1/26/79 (148-153)	DHHS INVENTION REPORT DATE: 04/18/80 (154-159)
DELUCA, H. SCHNOES, H. ET AL	U.S. PATENT APPLICATION SERIAL NUMBER: 007473. (171-179)	DHHS GRANT/AWARD NUMBER(S): AM14881 (179-223)
	U.S. PATENT NUMBER: 4223131 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 09/16/80 (233-238)	DHHS NUMBER: G-157-80 (239-250)

LICENSEE(S) [1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE [3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT [2] (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	4/21/80		A							

B- Australia
Israel
N. Zealand
France
Gt. Britain
Ireland
Denmark
Germany
Holland
Japan
Switz
C- Belgium

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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-CHOLECALCIFEROL & 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 (171-178)	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)[1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE[3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	CON-MENT[2] (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 - U.K. Brit. Ireland France Germany Japan Switz Israel

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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): [1] (100-147)	U.S. PATENT APPLICATION FILING DATE: 05/21/79 (148-153)	DHHS INVENTION REPORT DATE: 08/26/80 (154-159)
DELUCA, H.	U.S. PATENT APPLICATION SERIAL NUMBER: 041080 (171-178)	DHHS GRANT/AWARD NUMBER(S): AM14881 (179-223) DE07031
SCHNOES, H.		
ET AL	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) [1] (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE [3] (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)	COMMENT [2] (71)
UPJOHN	7/1/73		A	0000		0000	00000	0000	00000	
HOFFMAN LAROCHE(US)	10/1/75		A	0000		0000	00000	0000	00000	E
ROUSSEL UCLAF	11/1/71		A	0000		0000	00000	0000	00000	E B
DIAMOND SHAMROCK	11/1/76		A	0000		0000	00000	0000	00000	
Hoffmann-LaRoche (Canada)	9/1/77		A							
U.S. Government	8/26/80		A							
Abbott Labs	1/1/78		A							

B- Canada, Israel, France, Ireland, So. Rhod., Germany, Japan

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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)	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): 1 (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 (171-178) U.S. PATENT NUMBER: 4035493 (224-232) U.S. PATENT DATE OF ISSUE: 07/12/77 (233-238)	DHHS GRANT/AWARD NUMBER(S): AM14881 (179-223) (FOR DHHS OFFICE USE ONLY) DHHS NUMBER: G-205-75 (239-250)

LICENSEE(S) 1 (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE 3 (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT 2 (71)
HOFFMAN LAROCHE (US)	10/1/75		A	0000		0000	00000	0000	00000	E
LEO	1/1/74		A	0000		0000	00000	0000	00000	E B
CHUGAI	11/1/75		A	0000		0000	00000	0000	00000	E
ROUSSEL UCLAF	11/1/71		A	0000		0000	00000	0000	00000	E
REVLON	6/1/80		A	0000		0000	00000	0000	00000	
DIAMOND SHAMROCK	11/1/76		A	0000		0000	00000	0000	00000	
~~UPJOHN DIAMOND SHAM.~~				0000		0000	00000	0000	00000	
Hoffmann La Roche (Switz)	9/1/77		A							
Leo Ltd	8/1/79		A							
U.S. Government	1/12/76		A							

B- Denmark

C- Canada Gt. Brit.

CONFIDENTIAL

* '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

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) 23,25-Dihydroxyvitamin D_3

INVENTOR(S): [1] (100-147)
DeLuca, H.
Schnoes, H.
ET AL

U.S. PATENT APPLICATION FILING DATE: (148-153) 9/22/80

U.S. PATENT APPLICATION SERIAL NUMBER: (171-178) 189481

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

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

DHHS INVENTION REPORT DATE: (154-159) 5/26/81

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

(FOR DHHS OFFICE USE ONLY)

DHHS NUMBER: (239-250)

LICENSEE(S) [1] (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE [3] (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)	COMMENT [2] (71)
U.S Government	6/1/81		A							E
Roussel	11/1/71		A							
Upjohn	7/1/73		A							
Hoffmann La Roche (US)	10/1/75		A							
										B- Ist Britain

CONFIDENTIAL

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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)

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) Vitamin D Lactone Derivative and Process for Preparing Same

INVENTOR(S): [1] (100-147)
DeLuca, H.
Schnoes, H.
ET AL

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

U.S. PATENT APPLICATION SERIAL NUMBER: (171-178) 170228

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) [1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE [3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT [2] (71)
U.S. Government	1/15/81		A							E
Roussel	11/1/71		A							
Upjohn	7/1/73		A							
Hoffmann-LaRoche (US)	10/1/75		A							

CONFIDENTIAL

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L = UNIVERSITY RIGHTS RELINQUISHED

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PATENT ACTIVITY REPORT

ID #: (1-5)

INSTITUTION: (20-99) 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): 1 (100-147)
DeLuca, H.
Schnoes, 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) 1 (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE 3 (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 ROYAL. BY LICENSER CUR. YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT 2 (71)
U.S. Government	1/15/81		A							E
Roussel	11/1/71		A							
Upjohn	7/1/73		A							
Hoffmann LaRoche (US)	10/1/75		A							

CONFIDENTIAL

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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) DeLuca, 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)[1] (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE[3] (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)	COMMENT[2] (71)
U.S. Government	1/15/81		A							B-Great Britain Ireland Israel Japan France Germany Switz
Roussel	11/1/71		A							
Upjohn	7/1/73		A							
Hoffmann La Roche (US)	10/1/75		A							
Hoffmann La Roche (Switz)	9/1/77		A							
Leo	11/1/74		A							
Chugai	11/1/75		A							
Teva	8/11/79		A							
Astra Labs	1/1/78		A							
Revlon	6/1/80		A							

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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) Activated Vitamin D Sodium Citrate

INVENTOR(S): (100-147) DeLuca, H. Schnoes, H. ET AL	U.S. PATENT APPLICATION FILING DATE: (148-153) 10/9/79	DHHS INVENTION REPORT DATE: (154-159) 1/19/81
	U.S. PATENT APPLICATION SERIAL NUMBER: (171-178) 083023	DHHS GRANT/AWARD NUMBER(S): (179-223) AM 14881
	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) 1 (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE 3 (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT 2 (71)
U.S. Government	1/15/81		A							E B-Canada

UNCLASSIFIED

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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) Vitamin D Compounds Isotopically Substituted at Carbon 6 and Process for Their Preparation

INVENTOR(S): (100-147) [1] DeLuca, H. Schnoes, H. ET AL

U.S. PATENT APPLICATION FILING DATE: (148-153) 7/17/80

U.S. PATENT APPLICATION SERIAL NUMBER: (171-178) 169567

U.S. PATENT NUMBER: (224-232) 4297289

U.S. PATENT DATE OF ISSUE: (233-238) 10/27/81

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) [1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE [3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT [2] (71)
U. S. Government	1/15/81		A							B - Gt. Britain

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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): 1 (100-147)	U.S. PATENT APPLICATION FILING DATE: 07/26/78 (148-153)	DHHS INVENTION REPORT DATE: 06/11/79 (154-159)
DELUCA, H. SCHNOES, H. ET AL	U.S. PATENT APPLICATION SERIAL NUMBER: 928279 (171-178)	DHHS GRANT/AWARD NUMBER(S): DE0703114881A (179-223) GM00236BCH
	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) 1 (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE 3 (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT 2 (71)
U.S. Government	6/27/79		A	0000		0000	00000	0000	00000	D
										B- Australia Canada Israel N. Zealand France G. Britain Ireland Denmark Germany Holland Japan Sweden Switz
										C- Belgium

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

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PATENT ACTIVITY REPORT

ID #: (1-5)	01624
INSTITUTION: (80-99)	U OF WISCONSIN
DHHS IPA NUMBER: (160-164)	
DATE DHHS IPA SIGNED: (165-170)	12/01/68
REPORT PREPARER:	WARF
PERIOD COVERED:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: (6-79) FLUOROVITAMIN "D" COMPOUNDS AND PROCESSES FOR PREPARATION

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 (171-178)	DHHS GRANT/AWARD NUMBER(S): DE0703114881A (179-223) GM002368CH
	U.S. PATENT NUMBER: ~~4186345~~ 4263214 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: ~~02/12/80~~ 4/21/81 (233-238)	DHHS NUMBER: G-204-79 (239-250)

LICENSEE(S) [1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE [3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT [2] (71)
U.S. Government	6/27/79		A	0000		0000	00000	0000	00000	D B-Australia Canada Israel N. Zealand France Gt. Britain Ireland Denmark Germany Holland Japan Sweden Switz C-Belgium

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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 (171-178)	DHHS GRANT/AWARD NUMBER(S): DE0703114381A (179-223) GM00236BCH
	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) [1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE [3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT [2] (71)
U.S. Government	6/27/79		A	0000		0000	00000	0000	00000	D B-Australia Canada Israel N. Zealand France Gt 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

ID #: (1-5) 01626

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: (6-79) FLUOROVITAMIN "D" COMPOUNDS AND PROCESSES FOR PREPARATION

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

U.S. PATENT APPLICATION FILING DATE: 08/06/79 (148-153)

U.S. PATENT APPLICATION SERIAL NUMBER: 064211 (171-178)

U.S. PATENT NUMBER: 4229358 (224-232)

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

DHHS INVENTION REPORT DATE: 06/11/79 (154-159)

DHHS GRANT/AWARD NUMBER(S): (179-223) DE07031148B1A GM002368CH

(FOR DHHS OFFICE USE ONLY)

DHHS NUMBER: F-204-79 (239-250)

LICENSEE(S) [1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE [3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT [2] (71)
U.S. Government	6/27/79		A	0000		0000	00000	0000	00000	D

B-Australia
Canada
Israel
N. Zealand
France
Gt. Britain
Ireland
Denmark
Germany
Holland
Japan
Sweden
Switz

C-Belgium

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

INSTITUTION TYPE: UNIVERSITY

INVENTION: FLUOROVITAMIN "D" COMPOUNDS AND PROCESSES FOR PREPARATION (6-79)

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

U.S. PATENT APPLICATION FILING DATE: 08/06/79 (148-153)

U.S. PATENT APPLICATION SERIAL NUMBER: 064212 (171-178)

U.S. PATENT NUMBER: 4229787 (224-232)

U.S. PATENT DATE OF ISSUE: 10/07/80 (233-238)

DHHS INVENTION REPORT DATE: 06/11/79 (154-159)

DHHS GRANT/AWARD NUMBER(S): DE07031148814 (179-223) GM002368CH

(FOR DHHS OFFICE USE ONLY)

DHHS NUMBER: G-204-79 (239-250)

LICENSEE(S) [1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE [3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT [2] (71)
U.S. Government	6/27/79		A	0000		0000	00000	0000	00000	D

B-Australia
Canada
Israel
N. Zealand
France
Gt. Britain
Ireland
Denmark
Germany
Holland
Japan
Sweden
Switz.

C-Belgium

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

PATENT ACTIVITY REPORT

ID #: (1-5) 01628

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: (6-79) FLUOROVITAMIN "D" COMPOUNDS AND PROCESSES FOR PREPARATION

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

U.S. PATENT APPLICATION FILING DATE: 08/06/79 (148-153)

U.S. PATENT APPLICATION SERIAL NUMBER: 064213 (171-178)

U.S. PATENT NUMBER: 4230627 (224-232)

U.S. PATENT DATE OF ISSUE: 10/28/80 (233-238)

DHHS INVENTION REPORT DATE: 06/11/79 (154-159)

DHHS GRANT/AWARD NUMBER(S): (179-223) DE07031148818 GM00236BCH

(FOR DHHS OFFICE USE ONLY)

DHHS NUMBER: G-204-79 (239-250)

LICENSEE(S) [1] (6-25)	DATE LICENSE AGREEMENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE [3] (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)	COMMENT [2] (71)
U.S Government	6/27/79		A	0000		0000	00000	0000	00000	D

B-Australia
Canada
Israel
N. Zealand
France
G. Britain
Ireland
Denmark
Germany
Holland
Japan
Sweden
Switz

C-Belgium

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K = LICENSE TERMINATED
L = UNIVERSITY RIGHTS RELINQUISHED

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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)

1 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) GN00236BCH
	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)

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 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 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	D

B-Australia
Canada
Israel
N. Zealand
France
Gt. Britain
Ireland
Denmark
Germany
Holland
Japan
Sweden
Switz

C-Belgium

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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) 24,24-Difluoro-1α,25-Dihydroxycholecalciferol

INVENTOR(S): 1 (100-147)
DeLuca, H.
Schnoes, H.
ET AL

U.S. PATENT APPLICATION FILING DATE: (148-153) 3/28/79

U.S. PATENT APPLICATION SERIAL NUMBER: (171-178) 024848

U.S. PATENT NUMBER: (224-232) 4201881

U.S. PATENT DATE OF ISSUE: (233-238) 5/6/80

DHHS INVENTION REPORT DATE: (154-159) 12/4/79

DHHS GRANT/AWARD NUMBER(S): (179-223) 80201NT7605793 AM14881

(FOR DHHS OFFICE USE ONLY)

DHHS NUMBER: (239-250)

LICENSEE(S) 1 (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE 3 (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT 2 (71)
U.S. Government	12/5/79		A							D B-Australia Canada Israel N Zealand G.B. Britain Ireland France Italy Denmark W. Ger. Holland Japan Sweden C-Belgium

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PATENT ACTIVITY REPORT

ID #: (1-5) 01488

INSTITUTION: (80-99) U OF WISCONSIN

DHHS IPA NUMBER: (160-164)

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

REPORT PREPARER: WARF

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

INSTITUTION TYPE: UNIVERSITY

INVENTION: (6-79) 24,24-DIFLUORO-1 ALPHA 25-DIHYDROXYCHOLECALCIFEROL

INVENTOR(S): 1 (100-147)
DELUCA, H.
SCHNOES, H.
ET AL

U.S. PATENT APPLICATION FILING DATE: 08/06/79 (148-153)

U.S. PATENT APPLICATION SERIAL NUMBER: 064254 (171-178)

U.S. PATENT NUMBER: ~~4201881~~ 4326788 (224-232)

U.S. PATENT DATE OF ISSUE: 10/7/80 ~~05/06/80~~ (233-238)

DHHS INVENTION REPORT DATE: 12/04/79 (154-159)

DHHS GRANT/AWARD NUMBER(S): 5020INT7605793 (179-223) AM14881

(FOR DHHS OFFICE USE ONLY)

DHHS NUMBER: G-32-80 (239-250)

LICENSEE(S) 1 (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE 3 (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT 2 (71)
U.S. Government	12/5/79		A	0000		0000	00000	0000	00000	D

B- Australia
Canada
Israel
N. Zealand
G.B. Brit.
Ireland
France
Italy
Denmark
Ger
Holland
Japan
Sweden
Switz
C- Belgium

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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

ID #: (1-5)

INSTITUTION: (80-99) U. of Wisconsin

DHHS IFA NUMBER: (160-164)

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

REPORT PREPARER: WARF

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

INSTITUTION TYPE: University

INVENTION: (6-79) Novel Vitamin D Compound and Process for Preparing Same

INVENTOR(S): [1] (100-147)
DeLuca, H.
Schnoes, H.
Tanaka, Y.

U.S. PATENT APPLICATION FILING DATE: (148-153) 7/14/80

U.S. PATENT APPLICATION SERIAL NUMBER: (171-178) 168791

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) [1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE [3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT [2] (71)
U.S. Government	1/15/81		A							A

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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 Vitamin D-Lactones

INVENTOR(S): (100-147) 1
DeLuca, H.
Schnoes, H.
ET AL

U.S. PATENT APPLICATION FILING DATE: (148-153) 8/4/80

U.S. PATENT APPLICATION SERIAL NUMBER: (171-178) 174944

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) 1 (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE 3 (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT 2 (71)
U.S. Government	1/15/81		A							A

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K = LICENSE TERMINATED
L = UNIVERSITY RIGHTS RELINQUISHED

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PATENT ACTIVITY REPORT

ID #: (1-5)	01544
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: (6-79) PROCESS FOR PREPARING 24-FLUORO-25-HYDROXYCHOLECALCIFEROL

INVENTOR(S): [1] (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) [1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE [3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT [2] (71)
U.S. Government	1/15/81		A	0000		0000	00000	0000	00000	E D

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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-HEXAFLUOROCHOLECALCIFEROL (6-79)

INVENTOR(S): [1] (100-147) DELUCA, H. TANAKA, Y. ET AL	U.S. PATENT APPLICATION FILING DATE: 02/04/80 (148-153)	DHHS INVENTION REPORT DATE: 11/04/80 (154-159)
	U.S. PATENT APPLICATION SERIAL NUMBER: 118149 (171-178)	DHHS GRANT/AWARD NUMBER(S): AM14881 (179-223)
	U.S. PATENT NUMBER: 4248791 (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) [1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE [3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT [2] (71)
U.S. Government	1/15/81		A	0000		0000	00000	0000	00000	D

B - Australia, N. Zealand, Israel, France, G. Britain, Ireland, Italy, Germany, Holland, Japan, Switz, Denmark

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; 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; 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)	01563
INSTITUTION: (S0-99)	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 ANGUIDINE (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)[1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE[3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT[2] (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; 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; 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)	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): [1] (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 (171-178)	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) [1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE [3] (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 ROYAL. BY LICENSER CUR. YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT [2] (71)
U.S. Government	11/13/80		A	0000		0000	00000	0000	00000	

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- 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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PATENT ACTIVITY REPORT

ID #: (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): [1] (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) [1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE [3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT [2] (71)
In Vivo Metric Systems	1/1/80		A	0000		0000	00000	0000	00000	A
U.S. Government	6/30/71		A							

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Total gross royalties $389.00

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

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 & PRASEODYNIUM CHELATES OF 3-TRI-FLUOR-ACETYL... (6-79)

INVENTOR(S): 1 (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) 1 (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE 3 (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT 2 (71)
REGIS CHEMICAL CO.	5/1/72		A	0000		0000	00000	0000	00000	
ALDRICH CHEMICAL INC	1/1/78		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.
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3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

PATENT ACTIVITY REPORT

ID #: (1-5)	01508
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: FLUORINATED CAMPHOR DERIVATIVES AND EUROPIUM... (6-79)

INVENTOR(S): (100-147)	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) [1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE [3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT [2] (71)
Regis Chemical	5/1/72		A	0000		0000	00000	0000	00000	?
Aldrich Chemical	1/1/78		A							
Thiokol Corporation	11/7/80		A							
U.S. Government	5/1/72		A							
Willow Brook Labs	1/29/74		A							K
										A-Canada

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Total gross royalties $2,304.00

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

Kiger Chemical Company, 8210 Austin Ave., Morton Grove, Illinois 60053 - (312) 967-6000

Aldrich Chemical Co., Inc., 940 W. St. Paul Ave., Milwaukee, Wi 53233 - (414) 273-3850

Ideal Corporation, P.O. Box 1000, Newtown, Pa. 18940

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)

1 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 (121-178)	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)

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 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 LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	2 COM-MENT (71)
Bayer AG	6/11/81		B	0000		0000	00000	0000	00000	E G
U.S. Government	4/21/80		A							B-Canada

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

Agricultural Chemicals Division, 5090 Leverkusen, Bayerwerk, W. Germany (option agree.)
Leverkusen 301 (Vermittlung)

PRYOR / PRINTED IN U.S.A.

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)

1 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 (233-238)	DHHS NUMBER: G-153-79 (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 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 LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	2 COM-MENT (71)
RADIATION MEAS. INC.	10/01/79		A	0000		0000	00000	0000	00000	G
U.S Government	5/14/79		A							B-Canada

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PATENT ACTIVITY REPORT

ID #: (1-5) 01565

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 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)[1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE[3] (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 ROYAL BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT[2] (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	C
ROUSSEL UCLAF	11/1/71		A	0000		0000	00000	0000	00000	C
ABBOTT LABS	1/1/78		A	0000		0000	00000	0000	00000	
~~DELUCA ET AL~~				0000		0000	00000	0000	00000	
~~INVENTIONS SUPRA~~				0000		0000	00000	0000	00000	
Hoffmann LaRoche (Switz)	9/1/77		A							

A- Denmark, Holland, Switz, Sweden

C- Canada, Gt. Brit

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

PATENT ACTIVITY REPORT

ID #: (1-5)	01609
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: COMPENSATION OF PATIENT THICKNESS VARIATIONS AND DIFFERENTIAL X-RAY... (6-79)

INVENTOR(S): 1 (100-147) MISTRETTA, C. KELCZ, F.	U.S. PATENT APPLICATION FILING DATE: 12/10/73 (148-153)	DHHS INVENTION REPORT DATE: 01/15/74 (154-159)
	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) 1 (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE 3 (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT 2 (71)
U.S. Government	11/17/74		A	0000		0000	00000	0000	00000	

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

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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:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: DIFFERENTIAL X-RAY METHOD AND APPARATUS (6-79)

INVENTOR(S): [1] (100-147)	U.S. PATENT APPLICATION FILING DATE: 03/27/75 (148-153)	DHHS INVENTION REPORT DATE: 05/09/75 (154-159)
MISTRETTA, K. KELCZ, F.	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)

LICENSEE(S) [1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE [3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT [2] (71)
U.S. Government	11/15/74		A	0000		0000	00000	0000	00000	C - Canada Gt. Britain Japan B - W. Germany

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PATENT ACTIVITY REPORT

ID #: (1-5)	01612
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: PRODUCTION OF RADIATION INDUCED THERMALLY ACTIVATED CURRENT (RITAC) ... (6-79)

INVENTOR(S):[1] (100-147)	U.S. PATENT APPLICATION FILING DATE: 08/16/74 (148-153)	DHHS INVENTION REPORT DATE: 03/18/74 (154-159)
MORAN ~~MORGAN~~, P. PODGORSAK, E. ET AL	U.S. PATENT APPLICATION SERIAL NUMBER: 497874 (171-178)	DHHS GRANT/AWARD NUMBER(S): GH34585 -NSF Grant 5T01CA0510410 5T01CA0510411 (179-223)
	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)[1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE[3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT[2] (71)
U.S. Government	10/2/74		A	0000		0000	00000	0000	00000	
Minn. Mining	9/25/74		C						0	K
										C - Canada Gt. Brit - abandoned

CONFIDENTIAL

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

Minnesota Mining & Manufacturing Co., 3501 Hudson Rd., St. Paul, Minn. 55119 - (612) 733-1110 (optional agent)

PATENT ACTIVITY REPORT

ID #: (1-5)	01554
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: MULTIPLEXING OF PHYSIOLOGICAL SENSOR SIGNALS WITH GAMMA RAY... (6-79)

INVENTOR(S): (100-147)	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)[1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE[3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT[2] (71)
U.S. Government	6/30/75		A	0000		0000	00000	0000	00000	

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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): [1] (100-147)
NICKLES, R.

U.S. PATENT APPLICATION FILING DATE: 05/27/76 (148-153)

U.S. PATENT APPLICATION SERIAL NUMBER: ~~586200~~ 690651 (171-178)

U.S. PATENT NUMBER: 4058728 (224-232)

U.S. PATENT DATE OF ISSUE: 11/15/77 (233-238)

DHHS INVENTION REPORT DATE: 06/14/76 (154-159)

DHHS GRANT/AWARD NUMBER(S): HRA0500019609 (179-223)

(FOR DHHS OFFICE USE ONLY)

DHHS NUMBER: G-127-75 (239-250)

LICENSEE(S) [1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE [3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT [2] (71)
U.S. Government	6/30/75		A	0000		0000	00000	0000	00000	

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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): 1 (100-147)
NICKLES, R.
MEYER, H.

U.S. PATENT APPLICATION FILING DATE: 01/29/75 (148-153)

U.S. PATENT APPLICATION SERIAL NUMBER: 544883 (171-178)

U.S. PATENT NUMBER: 3978337 (224-232)

U.S. PATENT DATE OF ISSUE: 08/31/76 (233-238)

DHHS INVENTION REPORT DATE: 04/03/73 (154-159)

DHHS GRANT/AWARD NUMBER(S): 5E03PE0019607 (179-223)

(FOR DHHS OFFICE USE ONLY)

DHHS NUMBER: G-69-73 (239-250)

LICENSEE(S) 1 (6-25)	DATE LICENSE AGREE -MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE 3 (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM- MENT 2 (71)
U.S. Government	2/11/75		A	0000		0000	00000	0000	00000	

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

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L = UNIVERSITY RIGHTS RELINQUISHED

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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:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: ANTIBIOTIC PRODUCTION BY MYCOPLASNA SPECIES III RP (6-79)

INVENTOR(S): 1 (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): 5R01AI10505 (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) 1 (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE 3 (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT 2 (71)
ABBOTT LABS	6/8/76		B	0000		0000	00000	0000	00000	K
U.S. Government	3/1/76		A							

CONFIDENTIAL

A - Australia, Germany, Gt. Britain, Greece, 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: (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)[1]: (100-147)
RICH, D.
GURWARA, S.

U.S. PATENT APPLICATION FILING DATE: 05/07/75 (148-153)

U.S. PATENT APPLICATION SERIAL NUMBER: 575478 (171-178)

U.S. PATENT NUMBER: 4062746 (224-232)

U.S. PATENT DATE OF ISSUE: 12/13/77 (233-238)

DHHS INVENTION REPORT DATE: 12/03/74 (154-159)

DHHS GRANT/AWARD NUMBER(S): 5R01AM1550703 (179-223)

(FOR DHHS OFFICE USE ONLY)

DHHS NUMBER: G-276-74 (239-250)

LICENSEE(S)[1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE[3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT[2] (71)
U.S. Government	6/18/75		A	0000		0000	00000	0000	00000	C-Canada

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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): [1] (100-147) RICH, D. GURWARA, S.	U.S. PATENT APPLICATION FILING DATE: 12/09/76 (148-153) U.S. PATENT APPLICATION SERIAL NUMBER: ~~575478~~ 748948 (171-178) U.S. PATENT NUMBER: 4101721 (224-232) U.S. PATENT DATE OF ISSUE: 07/18/78 (233-238)	DHHS INVENTION REPORT DATE: 02/03/77 (154-159) DHHS GRANT/AWARD NUMBER(S): 5R01AM1550703 (179-223) (FOR DHHS OFFICE USE ONLY) DHHS NUMBER: G-276-74 (239-250)

LICENSEE(S) [1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE [3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT [2] (71)
U.S. Government	6/18/75		A	0000		0000	00000	0000	00000	

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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):[1] (100-147)

RICH, D.

GURWARA, S.

U.S. PATENT APPLICATION FILING DATE: 11/10/77 (148-153)

U.S. PATENT APPLICATION SERIAL NUMBER: ~~748948~~ 850141 (171-178)

U.S. PATENT NUMBER: 4189605 (224-232)

U.S. PATENT DATE OF ISSUE: 2/19/80 (233-238)

DHHS INVENTION REPORT DATE: 02/03/77 (154-159)

DHHS GRANT/AWARD NUMBER(S): 5R01AM1550703 (179-223)

(FOR DHHS OFFICE USE ONLY)

DHHS NUMBER: G-276-74 (239-250)

LICENSEE(S)[1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE[3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT[2] (71)
U.S. Government	6/18/75		A	0000		0000	00000	0000	00000	

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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 = LICENSE TERMINATED
L = UNIVERSITY RIGHTS RELINQUISHED

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

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)
RICHARDSON, T.

U.S. PATENT APPLICATION FILING DATE: 05/23/74 (148-153)

U.S. PATENT APPLICATION SERIAL NUMBER: 472588 (171-178)

U.S. PATENT NUMBER: 4144131 (224-232)

U.S. PATENT DATE OF ISSUE: 03/13/79 (233-238)

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

DHHS GRANT/AWARD NUMBER(S): 5S07RR0709807 (179-223)

(FOR DHHS OFFICE USE ONLY)

DHHS NUMBER: G-2-74 (239-250)

LICENSEE(S) [1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE [3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT [2] (71)
U.S. Government	9/4/74		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; 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; 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) 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): [1] (100-147)
SHEEHY, M.
SONDEL, P.
ET AL

U.S. PATENT APPLICATION FILING DATE: 07/03/78 (148-153)

U.S. PATENT APPLICATION SERIAL NUMBER: 921487 (171-178)

U.S. PATENT NUMBER: 4265873 (224-232)

U.S. PATENT DATE OF ISSUE: 5/5/81 (233-238)

DHHS INVENTION REPORT DATE: 06/21/77 (154-159)

DHHS GRANT/AWARD NUMBER(S): CA14520 GM20130; AI1157603 GM15422-10; AI08439 CA16836-01 (179-223)

(FOR DHHS OFFICE USE ONLY)

DHHS NUMBER: G-122-77 (239-250)

LICENSEE(S) [1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE [3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT [2] (71)
BIO-TEST SERUM INST.	4/1/78		B	0000		0000	00000	0000	00000	& K
U.S. Government	6/21/77		A							C-Canada

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

PATENT ACTIVITY REPORT

ID #: (1-5)	01611
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 3 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) 1 (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE 3 (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT 2 (71)
U.S. Government	3/27/74		A	0000		0000	00000	0000	00000	

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

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): 1 (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 (171-178)	DHHS GRANT/AWARD NUMBER(S): 2R01AN487412 (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) 1 (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE 3 (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT 2 (71)
U.S. Government	3/27/74		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

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) SIH, C.	U.S. PATENT APPLICATION FILING DATE: 12/13/74 (148-153)	DHHS INVENTION REPORT DATE: 09/01/75 (154-159)
	U.S. PATENT APPLICATION SERIAL NUMBER: ~~450950~~ 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) 1 (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE 3 (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT 2 (71)
U.S. Government	3/27/74		A	0000		0000	00000	0000	00000	

* '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 (INCLUDING FOREIGN PATENTS)

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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)	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): [1] (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) [1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE [3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT [2] (71)
U.S. Government	7/10/76		A	0000		0000	00000	0000	00000	

A- Hungary Switz
B- W Ger. Japan
C- Canada France Gt. Britain

* '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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- D = NEGOTIATING WITH POTENTIAL LICENSEE
- E = US PATENT APPLICATION PENDING
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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

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

PATENT ACTIVITY REPORT

ID #: (1-5)	01579
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 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): 5S01FR0545607 5R01AM0487409 5T01AM0968805 (179-223)
	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)[1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE[3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT[2] (71)
U.S. Government	1/13/70			0000		0000	00000	0000	00000	A-Holland

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

PATENT ACTIVITY REPORT

ID #: (1-5) 01594

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

INVENTOR(S): [1] (100-147)
SIH, C.

U.S. PATENT APPLICATION FILING DATE: 01/26/72 (148-153)

U.S. PATENT APPLICATION SERIAL NUMBER: 221058 (171-178)

U.S. PATENT NUMBER: 4031129 (224-232)

U.S. PATENT DATE OF ISSUE: 06/21/77 (233-238)

DHHS INVENTION REPORT DATE: 01/28/72 (154-159)

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

(FOR DHHS OFFICE USE ONLY)

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

LICENSEE(S) [1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE [3] (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 ROYAL. BY LICENSER CUR'YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT [2] (71)
MILES LABS	6/1/72		A	0000		0000	00000	0000	00000	K
ALZA (A) 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
Ortho	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

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

Patents granted & abnd.	Applns pending	Applns dropped
C – Argentina	B – Bulgaria	A – Czech.
Australia	Denmark	Finland
Belgium	Japan	Ger., W.
Bulgaria	Sweden	Holland
Chile		Italy
Spain		Japan
Ger., E.		Mexico
Gt. Britain		Norway
Greece		Philippines
Holland		Poland
Hungary		Romania
Ireland		Sweden
Israel		USSR
Mexico		Yugoslavia
N. Zealand		
Poland		
Portugal		
So. Africa		
Spain		
Switz.		
USSR		
Venezuela		

Patents at allied forces

C – Canada		
Chile		
Japan		
W. Ger.		
Gt. Brit.		
Israel		
Japan		
Switz.		

14113

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PATENT ACTIVITY REPORT

ID #: (1-5)	01576
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: PROSTAGLANDINS AND METHODS FOR PREPARING SAME (6-79)

INVENTOR(S): [1] (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) [1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE [3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT [2] (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
Ortho	3/1/73		A							K
U.S. Government	3/17/72		A							

A, B & C - same as U.S. Ser. No. 221058 (Lil)

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Total gross royalties $27,770.00

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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)	01615
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: PROSTAGLANDINS AND METHODS FOR PREPARING SAME (6-79)

INVENTOR(S): 1 (100-147) SIH, C.	U.S. PATENT APPLICATION FILING DATE: 2/25/77 (148-153)	DHHS INVENTION REPORT DATE: 09/12/77 (154-159)
	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) 1 (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE 3 (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 ROYAL BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT 2 (71)
MILES LABS	6/1/72		A	0000		0000	00000	0000	00000	K
Alza Corp.	8/1/72		A							K
Teijen	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. 221058 (Sil)

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Total gross royalties $27,770.00

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

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 IODO ALKENYL COMPOUNDS (6-79)

INVENTOR(S): 1 (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: ~~293442~~ 504162 (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) 1 (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE 3 (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT 2 (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
Ortho	3/1/73		A							K
U.S. Government	12/20/72		A							A, B + C - same as U.S. Ser. No. 221058 (Sel)

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Total gross royalties $27,770.00

CONFIDENTIAL

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

PATENT ACTIVITY REPORT

ID #: (1-5)	01559
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):[1] (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: ~~2~~3962353 (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)[1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE[3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT[2] (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/TEIKOKO	5/4/74		A	0000		0000	00000	0000	00000	C
U.S. Government	12/20/72		A							
Ortho	3/1/73		A							K

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

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Total gross royalties $27,770.00

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

Eli Lilly Laboratories, Inc., P.O. Box 40, Elkhart, Indiana 46515 – (219) 262-7800

Alza Corporation, 950 Page Mill Rd., Palo Alto, California 94304 – (415) 493-3200

Ortho Pharmaceutical Corporation, Raritan, NJ 08869

Teijin Limited, 1-1, Uchisaiwai-Cho 2-Chome, Chiyoda-Ku, Tokyo 100 Japan – (506) 4111

Teikoku Hormone Mfg. Co. Ltd., 5-1, 2-Chome, Akasaka, Minato-Ku, Tokyo, Japan

Mitsubishi Corporation, 6-3, Marunouchi, 2-Chome, Chiyoda-Ku, Tokyo, Japan

14113

PRYOR / 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): 1 (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) 1 (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE 3 (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT 2 (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
TEIKOKU/MITSUBISHI	5/4/74		A	0000		0000	00000	0000	00000	C
Ortho	3/1/73		A							K
U.S. Government	3/17/72		A							
Miles Labs	6/1/79		A							A, B & C - same as U.S. Ser. No. 221058 (Sil)

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Total gross royalties $27,770.00

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J = LICENSEE TO GOVERNMENT
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L = UNIVERSITY RIGHTS RELINQUISHED
3 LICENSE TYPE CODES: A = NON-EXCLUSIVE; B = LIMITED EXCLUSIVE; C = EXCLUSIVE

PATENT ACTIVITY REPORT

ID #: (1-5) 01603

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 PREPARING 2-SUBSTITUTED-4-HYDROXY CYCLOPENTENE-1-3-DIONES (6-79)

INVENTOR(S): [1] (100-147)

SIH, C.

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

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

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

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

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

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

(FOR DHHS OFFICE USE ONLY)

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

LICENSEE(S) [1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE [3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT [2] (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
Ortho	3/1/73		A							K
Miles Labs	6/1/79		A							See other side re A, B, C.

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Total gross royalties $27,770.00

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

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

Patents granted & about

C – Argentina
Australia
Chile
China
E. Ger.
Hungary
Mexico
N. Zealand
Poland
Portugal
S. Africa
Spain
Venezuela

Patents still in force

C – Canada
Belgium
France
W. Ger.
Gt. Brit.
Japan
Switz

Applns. dropped

A – Austria
Bulgaria
Czech
Denmark
Finland
Greece
Ireland
Israel
Holland
Norway
Philippines
Rumania
USSR
Yugoslavia

Applns. pending

B – Sweden

14113

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PATENT ACTIVITY REPORT

ID #: (1-5) 01606

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 PREPARING CHIRAL-2-SUBSTITUTED-4-HYDROXY.. (6-79)

INVENTOR(S): (100-147)
SIH, C.
HEATHER, J.

U.S. PATENT APPLICATION FILING DATE: ~~06/13/74~~ 11/4/77 (148-153)

U.S. PATENT APPLICATION SERIAL NUMBER: ~~389766~~ Re. 848618 (171-178)

U.S. PATENT NUMBER: ~~3968141~~ Re 29990 (224-232)

U.S. PATENT DATE OF ISSUE: ~~07/06/76~~ Reissued 5/8/79 (233-238)

DHHS INVENTION REPORT DATE: 09/28/72 (154-159)

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

(FOR DHHS OFFICE USE ONLY)

DHHS NUMBER: G-199-72 (239-250)

LICENSEE(S) [1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE [3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT [2] (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
Ajinomoto	3/1/73		A							K
Miles Labs	6/1/79		A							See other side re A, B, C

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Total gross royalties $27,770.00

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

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

Patents granted & aband

C - Argentina
Australia
Austria
Bulgaria
Chile
China
Czech
Mexico
N. Zealand
Philippines
So. Africa
Spain
Venezuela

Patents still in Force

C - Belgium
Canada
France
W. Ger.
Gt. Britain
Japan
Switz

Applns dropped

A - Denmark
Finland
E. Ger.
Greece
Hungary
Ireland
Israel
Holland
Norway
Poland
Portugal
Roumania
USSR
Yugoslavia

Applns pending

B - Sweden

PRYOR / PRINTED IN U.S.A.

PATENT ACTIVITY REPORT

ID #: (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):[1] (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)[1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE[3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT[2] (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
Ortho	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 (Sih-Heather)

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$ Total gross royalties $27,770.00

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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) 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): [1] (100-147)
SUTTIE, J.

U.S. PATENT APPLICATION FILING DATE: 05/12/75 (148-153)

U.S. PATENT APPLICATION SERIAL NUMBER: 576347 (171-178)

U.S. PATENT NUMBER: 4021568 (224-232)

U.S. PATENT DATE OF ISSUE: 05/03/77 (233-238)

DHHS INVENTION REPORT DATE: 05/28/75 (154-159)

DHHS GRANT/AWARD NUMBER(S): R01AM14881 (179-223)

(FOR DHHS OFFICE USE ONLY)

DHHS NUMBER: G-138-74 (239-250)

LICENSEE(S) [1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE [3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT [2] (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.

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

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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

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: WARF

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

INSTITUTION TYPE: UNIVERSITY

INVENTION: STEREOCONTROL IN ALLYLIC ALKYLATION CATALYZED BY PALLADIUM (6-79)

INVENTOR(S)[1]: (100-147)
TROST, B.
VERHOEVEN, T.

U.S. PATENT APPLICATION FILING DATE: 01/05/76 (148-153)

U.S. PATENT APPLICATION SERIAL NUMBER: 646640 (171-178)

U.S. PATENT NUMBER: 4051157 (224-232)

U.S. PATENT DATE OF ISSUE: 09/27/77 (233-238)

DHHS INVENTION REPORT DATE: 02/06/76 (154-159)

DHHS GRANT/AWARD NUMBER(S): 5R01GM13598 (179-223) 76IMPS03396-NSF Grant

(FOR DHHS OFFICE USE ONLY)

DHHS NUMBER: G-28-76 (239-250)

LICENSEE(S)[1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE[3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT[2] (71)
U.S. Government	2/24/76		A	0000		0000	00000	0000	00000	

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- J = LICENSEE TO GOVERNMENT
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PATENT ACTIVITY REPORT

ID #: (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 REAGANTS (6-79)

INVENTOR(S): [1] (100-147)
TROST, B.
VINCENT, J.

U.S. PATENT APPLICATION FILING DATE: 07/03/80 (148-153)

U.S. PATENT APPLICATION SERIAL NUMBER: 165768 (171-179)

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

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

DHHS INVENTION REPORT DATE: 06/23/80 (154-159)

DHHS GRANT/AWARD NUMBER(S): 8075CHE7615113-NSF Grant (179-223)
NIH GM13598
NIH GM 7435-01

(FOR DHHS OFFICE USE ONLY)

DHHS NUMBER: G-222-80 (239-250)

LICENSEE(S) [1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE [3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT [2] (71)
U.S. Government	8/26/80		A	0000		0000	00000	0000	00000	E

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- G = UNDER EVALUATION/TESTING
- H = US PATENT APPLICATION WILL NOT BE FILED
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- J = LICENSEE TO GOVERNMENT
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- L = UNIVERSITY RIGHTS RELINQUISHED

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

PATENT ACTIVITY REPORT

ID #: (1-5) 01514

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: OXIDATIVE DECARBOXYLATION OF CARBOXYLIC ACIDS (6-79)

1 INVENTOR(S): (100-147)

TROST, B.

TANARU, Y.

U.S. PATENT APPLICATION FILING DATE: 05/13/75 (148-153)

U.S. PATENT APPLICATION SERIAL NUMBER: 578533 (171-178)

U.S. PATENT NUMBER: 4007211 (224-232)

U.S. PATENT DATE OF ISSUE: 02/08/77 (233-238)

DHHS INVENTION REPORT DATE: 03/18/75 (154-159)

DHHS GRANT/AWARD NUMBER(S): (179-223) 5R01GM13598 761MPS03396-NSF Grant

(FOR DHHS OFFICE USE ONLY)

DHHS NUMBER: G-60-75 (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 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 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	6/25/75		A	0000		0000	00000	0000	00000	

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K = LICENSE TERMINATED
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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): [1] (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) [1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE [3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT [2] (71)
ENKA A.G.	8/1/79		B	0000		0000	00000	0000	00000	E
U.S. Government	5/11/73		A							C-Canada

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

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Enka AG, D-5600 Wuppertal 1, 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): [1] (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) [1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE [3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT [2] (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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PATENT ACTIVITY REPORT

ID #: (1-5)	01600
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 DIALYZING CARBON DIOXIDE FROM BLOOD PLASMA (6-79)

INVENTOR(S): [1] (100-147)	U.S. PATENT APPLICATION FILING DATE: 10/05/72 (148-153)	DHHS INVENTION REPORT DATE: 03/27/73 (154-159)
UPDIKE, S.	U.S. PATENT APPLICATION SERIAL NUMBER: 295264 (171-178)	DHHS GRANT/AWARD NUMBER(S): GM16133 (179-223)
	U.S. PATENT NUMBER: 3953329 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 04/27/76 (233-238)	DHHS NUMBER: 6-66-73 (239-250)

LICENSEE(S) [1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE [3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT [2] (71)
Enka AG	8/1/79		B	0000		0000	00000	0000	00000	A-Canada
U.S. Government	5/11/73		A							

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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): [1] (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/AWARD 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) [1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE [3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT [2] (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
Miles Labs	9/1/74		A							K
U.S. Government	1/17/74		A							

B-Japan
C-Australia, Canada, France, W. Ger., Gt. Britain

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Total gross royalties $21,000.00

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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): [1] (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) [1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE [3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT [2] (21)
~~E.R.~~ SQUIBB ~~& SONS~~	7/1/73		A	0000		0000	00000	0000	00000	K
UNION CARBIDE	8/1/74		A	0000		0000	00000	0000	00000	K
Miles Labs	9/1/74		A							K
Nichols Institute	6/1/79		B							
U.S. Government	1/17/74		A							

B-Japan
C-Australia
Canada
France
W. Ger.
Gt. Britain

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Total gross royalties $21,000.00

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PATENT ACTIVITY REPORT

ID #: (1-5)	01607
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 PREPARATION OF DRY, POROUS GEL PARTICLES..... (6-79)

1 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: 356093 (171-178)	DHHS GRANT/AWARD NUMBER(S): GM16133 (179-223) GM70157
	U.S. PATENT NUMBER: 3925017 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 12/09/75 (233-238)	DHHS NUMBER: G-67-70 (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 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 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	1/17/74		A	0000		0000	00000	0000	00000	
E.R. Squibb	7/1/73		A							K
Miles Labs	9/1/74		A							K
Union Carbide	8/1/74		A							K
Nichols Institute	6/1/79		B							

B-Japan
C-Australia
Canada
France
W. Ger.
Gt. Britain

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Total gross royalties $21,000.00

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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)	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): K3HE18184 GM16133 HE09922 (179-223)
	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) [1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE [3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT [2] (71)
U.S. Government	3/15/71		A	0000		0000	00000	0000	00000	
E.R. Squibb	7/1/73		A							K
Miles 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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E. R. Squibb & Sons, Inc., P.O. Box 4000, Princeton, N.J. 08540

Union Carbide, 270 Park Ave., New York, N.Y. 10017

Nichols Institute, 1300 So. Beacon St., San Pedro, California 90731 - (213) 547-0856

PATENT ACTIVITY REPORT

ID # (1-5)	01486
INSTITUTION: (50-99)	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: 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. SHUTS, M.	U.S. PATENT APPLICATION SERIAL NUMBER: 947949 (171-178)	DHHS GRANT/AWARD NUMBER(S): GM16133 (179-223)
	U.S. PATENT NUMBER: 4,240,438 (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: 12/23/80 (233-238)	DHHS NUMBER: G-264-79 (239-250)

LICENSEE(S) [1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE [3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT [2] (71)
U.S. Gov.	8/15/79		A	0000		0000	00000	0000	00000	
Stimark Corporation	9/19/81		A					0	0	B G B-Canada

CONFIDENTIAL

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L = UNIVERSITY RIGHTS RELINQUISHED

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

Stumark Corporation, 2810 Gregory St., Madison, WI 53711 - (608-263-6702)

PRYOR / PRINTED IN U.S.A.

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: (6-79) ION FILTRATION CHROMATOGRAPHY FOR ENZYME PURIFICATION

INVENTOR(S): 1 (100-147)	U.S. PATENT APPLICATION FILING DATE: (148-153)	DHHS INVENTION REPORT DATE: 10/20/72 (154-159)
BOCK, R. KIRKEGARD, L. JOHNSON, T.	U.S. PATENT APPLICATION SERIAL NUMBER: (171-178)	DHHS GRANT/AWARD NUMBER(S): GM12395 (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) 1 (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE 3 (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT 2 (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): [1] (100-147)	U.S. PATENT APPLICATION FILING DATE: (148-153)	DHHS INVENTION REPORT DATE: 01/28/72 (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) [1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE [3] (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 ROYAL BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT [2] (71)
U.S. GOVERNMENT	10/17/72			0000		0000	00000	0000	00000	J

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

PATENT ACTIVITY REPORT

ID #: (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 SYSTEN (6-79)

INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: (148-153)	DHHS INVENTION REPORT DATE: 10/16/73 (154-159)
COLEMAN, P. SMITH, K.	U.S. PATENT APPLICATION SERIAL NUMBER: (171-178)	DHHS GRANT/AWARD NUMBER(S): MH30574 (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)[1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE[3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT[2] (71)
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PATENT ACTIVITY REPORT

ID #: (1-5)	01631
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: ENZYMATIC ASSAY OF AMINOGLYCOSIDE ANTIBODIES IN SERUM... (6-79)

INVENTOR(S): [1] (100-147)

DAVIES, J.

HARFORD, S.

U.S. PATENT APPLICATION FILING DATE: 11/13/79 (148-153)

U.S. PATENT APPLICATION SERIAL NUMBER: 93758 (171-178)

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

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

DHHS INVENTION REPORT DATE: 07/02/79 (154-159)

DHHS GRANT/AWARD NUMBER(S): PCM7623617 ~~0076~~ NSF Grant No. NIH 10076 (179-223)

(FOR DHHS OFFICE USE ONLY)

DHHS NUMBER: G-218-79 (239-250)

LICENSEE(S) [1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE [3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT [2] (71)
U.S. Government	1/21/80		A	0000		0000	00000	0000	00000	A-US Canada Ireland Australia Denmark France Germany Gt. Britain Japan Switz

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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 (6-79)

INVENTOR(S)[1]: (100-147)	U.S. PATENT APPLICATION FILING DATE: (148-153)	DHHS INVENTION REPORT DATE: 11/06/80 (154-159)
DAVIES, J. JIMENEZ, A.	U.S. PATENT APPLICATION SERIAL NUMBER: (171-178)	DHHS GRANT/AWARD NUMBER(S): AI12448 (179-223)
	U.S. PATENT NUMBER: (224-232)	(FOR DHHS OFFICE USE ONLY)
	U.S. PATENT DATE OF ISSUE: (233-238)	DHHS NUMBER: G-26-81 (239-250)

LICENSEE(S)[1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE[3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT[2] (71)
				0000		0000	00000	0000	00000	H

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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:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: COMPUTER VOICE RESPONSE TERMINAL (6-79)

INVENTOR(S):[1] (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)[1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE[3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT[2] (71)
U.S. Government	6/21/77		A	0000		0000	00000	0000	00000	A

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PATENT ACTIVITY REPORT

ID #: (1-5)	01583
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: RHYTHMAT-70-A (6-79)

INVENTOR(S): 1 (100-147)	U.S. PATENT APPLICATION FILING DATE: (148-153)	DHHS INVENTION REPORT DATE: 03/25/71 (154-159)
FRIEDLANDER, B.	U.S. PATENT APPLICATION SERIAL NUMBER: (171-178)	DHHS GRANT/AWARD NUMBER(S): C278(C1) (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) 1 (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE 3 (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT 2 (71)
				0000		0000	00000	0000	00000	A H

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PATENT ACTIVITY REPORT

ID #: (1-5)	01582
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: A DENTAL APPLIANCE FOR SUPPORT OF INTRAORAL AIR PRESSURE SENSORS (6-79)

INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: (148-153)	DHHS INVENTION REPORT DATE: 08/24/70 (154-159)
FRITCH, 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 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 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 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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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)	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++ SPECIFIC IONOPHORE FROM MITOCHONDRIA (6-79)

INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: (148-153)	DHHS INVENTION REPORT DATE: 02/13/75 (154-159)
GREEN, D. BLONDIN, G.	U.S. PATENT APPLICATION SERIAL NUMBER: (171-178)	DHHS GRANT/AWARD NUMBER(S): 5P01GM1284709 (179-223) 5P01GM1284710
	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)[1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE[3] (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 ROYAL. BY LICENSER CUR. YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT[2] (71)
				0000		0000	00000	0000	00000	H A

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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)

1 INVENTOR(S): (100-147)	U.S. PATENT APPLICATION FILING DATE: (148-153)	DHHS INVENTION REPORT DATE: 02/13/75 (154-159)
KELSEY, C.	U.S. PATENT APPLICATION SERIAL NUMBER: (171-178)	DHHS GRANT/AWARD NUMBER(S): R01CA134690! (179-223) 5-R01-CA-13469-02 2-R01-CA-12099-02
	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 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 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 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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PATENT ACTIVITY REPORT

ID #: (1-5)	01596
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: 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) [1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE [3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT [2] (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

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)[1]: (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 7452GH34585-NSF Grant No. (179-223)
	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)[1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE[3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT[2] (71)
U.S. Gov. (NSF)	12/23/74		A	0000		0000	00000	0000	00000	DHEW waived rights to NSF - 4/17/74

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

PATENT ACTIVITY REPORT

ID #: (1-5)	01555
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: REGULATION OF INSECT REPRODUCTION AND/OR DEVELOPMENT (6-79)

INVENTOR(S)[1]: (100-147)	U.S. PATENT APPLICATION FILING DATE: (148-153)	DHHS INVENTION REPORT DATE: ~~09/01/75~~ 7/3/74 (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): 1P06RR077901 (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)[1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE[3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT[2] (71)
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PATENT ACTIVITY REPORT

ID #: (1-5)	01591
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: MULTIPLE SPECIMEN TABLE WITH LIQUID NITROGEN TANK (6-79)

INVENTOR(S): [1] (100-147)	U.S. PATENT APPLICATION FILING DATE: (148-153)	DHHS INVENTION REPORT DATE: 5/2/72 ~~11/18/71~~ (154-159)
PAIK, S.	U.S. PATENT APPLICATION SERIAL NUMBER: (171-178)	DHHS GRANT/AWARD NUMBER(S): RR00167 ~~AI932002~~ (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) [1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE [3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT [2] (71)
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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) Antibiotics Production by Mycoplasma Species

INVENTOR(S): (100-147)
Perlman, D

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

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

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

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

DHHS INVENTION REPORT DATE: (154-159) 11/18/71

DHHS GRANT/AWARD NUMBER(S): (179-223) AI932002

(FOR DHHS OFFICE USE ONLY)

DHHS NUMBER: (239-250)

LICENSEE(S)[1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE[3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT[2] (71)
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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)[1]: (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)[1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE[3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT[2] (71)
U.S. Government	3/15/71			0000		0000	00000	0000	00000	L

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L = UNIVERSITY RIGHTS RELINQUISHED

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

INSTITUTION TYPE: UNIVERSITY

INVENTION: PROCESS FOR CHILLPROOFING BEER WITH INSOLUBILIZED ENZYMES (6-79)

INVENTOR(S)[1]: (100-147) RICHARDSON, T.

U.S. PATENT APPLICATION FILING DATE: 05/22/70 (148-153)

U.S. PATENT APPLICATION SERIAL NUMBER: 39881 (171-178)

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

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

DHHS INVENTION REPORT DATE: 07/15/70 (154-159)

DHHS GRANT/AWARD NUMBER(S): FD 1R01 0012301 (179-223)

(FOR DHHS OFFICE USE ONLY)

DHHS NUMBER: (239-250)

LICENSEE(S)[1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE[3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT[2] (71)
U.S. Government	9/8/70		A	0000		0000	00000	0000	00000	A

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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) Photorecorder-Television Speech Movement Transducer for Lips, Tongue, Jaw and Larynx for Diagnostic Treatment and Training of Speech Disorders and Head Displacements

INVENTOR(S): 1 (100-147)
Smith, K.

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

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

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

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

DHHS INVENTION REPORT DATE: (154-159) 7/7/71

DHHS GRANT/AWARD NUMBER(S): (179-223) RO2355P7003

(FOR DHHS OFFICE USE ONLY)

DHHS NUMBER: (239-250)

LICENSEE(S) 1 (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC TYPE 3 (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT 2 (71)
										H
										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; 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; 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)	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:	10/1/80 TO 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: STRAIN-GAUGE LIP TRANSDUCER (6-79)

INVENTOR(S)[1]: (100-147)	U.S. PATENT APPLICATION FILING DATE: (148-153)	DHHS INVENTION REPORT DATE: 07/07/71 (154-159)
SMITH, K.	U.S. PATENT APPLICATION SERIAL NUMBER: (171-178)	DHHS GRANT/AWARD NUMBER(S): MH0446904 (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)[1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE[3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM-MENT[2] (71)
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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): [1] (100-147)	U.S. PATENT APPLICATION FILING DATE: (148-153)	DHHS INVENTION REPORT DATE: 07/07/71 (154-159)
SMITH, K.	U.S. PATENT APPLICATION SERIAL NUMBER: (171-178)	DHHS GRANT/AWARD NUMBER(S): RD2355P70C3 (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) [1] (6-25)	DATE LICENSE AGREE -MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE [3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	COM- MENT [2] (71)
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PATENT ACTIVITY REPORT

ID #: (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 9/30/81
INSTITUTION TYPE:	UNIVERSITY

INVENTION: AN IMPROVED PROCESS FOR THE PREPARATION OF TRIACETONEAMINE (6-79)

INVENTOR(S): [1] (100-147)	U.S. PATENT APPLICATION FILING DATE: (148-153)	DHHS INVENTION REPORT DATE: 05/11/77 (154-159)
SOSNOVSKY, G. KONIECZNY, M.	U.S. PATENT APPLICATION SERIAL NUMBER: (171-178)	DHHS GRANT/AWARD NUMBER(S): GM16741 (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) [1] (6-25)	DATE LICENSE AGREE-MENT SIGNED (26-31)	LICENSE NUMBER (32-41)	LIC. TYPE [3] (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 ROYAL. BY LICENSER CUR YR (IN $000) (62-65)	TOTAL GROSS ROYALTIES BY LICENSER TO DATE (IN $000) (66-70)	CON-MENT [2] (71)
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