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WISCONSIN ALUMNI RESEARCH FOUNDATION

September 30, 1981

Ms. Lucy Petitt Paralegal Office of the General Counsel National Science Foundation Washington, D. C. 20550

Dear Ms. Petitt:

Re: Institutional Patent Agreement University of Wisconsin - National Science Foundation

Attached you will find the various form sheets adopted by the National Science Foundation for the reporting of inventions under the Institutional Patent Agreement with the University of Wisconsin, which sheets will comprise the annual report called for under that Agreement. The report addresses the period from July 1, 1980 through June 30, 1981, which represents the fiscal year of the Wisconsin Alumni Research Foundation, the designee of the University of Wisconsin, under the Agreement.

Very truly yours,

UNIVERSITY OF WISCONSIN

By
Reuben H. Lorenz, Vice President and
Controller

WISCONSIN ALUMNI RESEARCH FOUNDATION

By Howard W. Bremer, Patent Counsel

RHL:HWB:rw Enc.

APPROVAL EXPIRES: April 30, 1981 No change from 1980

| NSF File Number: 74-62 Disclosure Date: 3/26/74 Waiver Date: |
|---|
| Grantee Institution: Wisconsin Inventor(s): Anderson et al . |
| Invention Title: Molecular Nitrogen Laser |
| Individual or Organization seeking licensees for invention: |
| X U.S. Patent Application filed. Date: 5/20/75; S.N.: 579.268 |
| X U.S. Patent granted. Date: 2/28/78; No.: 4.077.020 |
| Status of patent application if not yet granted: If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? |
| *Anderson, Louis W. FIRST LICENSEE: Fitzsimmons, William A; Date of license: 4/11/78 National Research Group, Inc. Total license payments to grantee before Oct. 1, 1976: \$0.0 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 . 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0 Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: |
| SECOND LICENSEE:; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$ |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$. |
| Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date:; Description: |
| Please provide above information for further licenses on the back, and check here: |
| FOREIGN PATENT STATUS Country of filing Filing date Filing No. Date Granted Patent No. |
| Invention was put into use by inventors and their jointly owned Company before patent issued. Royalty-free license was issued to inventors and to their jointly owned Company under waiver provisions from Department of Energy. |

| NSF File Number: 79-21 Disclosure Date: 12/6/78 Waiver Date: |
|---|
| Grantee Institution: Wisconsin Inventor(s): Davida-Kam. |
| Invention Title: A Complete Substitution Permutation Enciphering and Deciphering Circuit Individual or Organization seeking licensees for invention: |
| THE REPORT OF THE PROPERTY OF |
| X U.S. Patent Application filed. Date: 10/2/78; S.N.: 947.428 |
| X U.S. Patent granted. Date: 6/23/81; No.: 4,275,265 |
| Status of patent application if not yet granted: If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? |
| If so: Journal title: pate: |
| FIRST LICENSEE: ; Date of license:; |
| Total license payments to grantee before Oct. 1, 1976: \$0.0 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: ; Description: |
| SECOND LICENSEE: ; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$ |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$ |
| Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: |
| Please provide above information for further licenses on the back, and check here: Are you still actively seeking licensees? Yes x No |
| FOREIGN PATENT STATUS |
| Country of filing Filing date Filing No. Date Granted Patent No. |

OMB NO. 99-R0308 APPROVAL EXPIRES: April 30, 1981

STATUS OF NSF-FUNDED INVENTION Same as 1980 NSF File Number: 77-36 `Disclosure Date: 12/22/76 Waiver Date:

| Grantee Institution: Wisconsin Inventor(s): Davida-Wells . |
|--|
| Invention Title: Digital Data Enciphering and Deciphering Circuit and Method |
| Individual or Organization seeking licensees for invention: |
| [18] [18] [18] [18] [18] [18] [18] [18] |
| x U.S. Patent Application filed. Date: 10/3/77; S.N.: 839.034 |
| X U.S. Patent granted. Date: 5/6/80 No.: 4,202,051 |
| Status of patent application if not yet granted: If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? |
| If so: Journal title: Pate: |
| Option Agreement - FIRST LICENSEE: Quanta, Inc.; Date of license: 7/28/81 |
| Total license payments to grantee before Oct. 1, 1976: \$0.0 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: SECOND LICENSEE: Date of license: |
| Potal license payments to grantee before Oct. 1, 1976: \$ |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$ |
| Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: |
| Please provide above information for further licenses on the back, and check here: Is invention available to other licensees? Is invention available to other licensees? No No No No No No No No No N |
| FOREIGN PATENT STATUS Country of filing Filing date Filing No. Date Granted Patent No. |

| 80-73-MCS77-02156 pisciosure pate: 6/17/80 waiver pate: |
|--|
| Grantee Institution: Wisconsin Inventor(s): Davida-Wells-Kam |
| Invention Title: A Database Encryption System with Subkeys |
| Individual or Organization seeking licensees for invention: |
| The state of the WARF of the state of the st |
| X U.S. Patent Application filed. Date: 1/30/80; S.N.: 117,140 |
| U.S. Patent granted. Date: ; No.: |
| Status of patent application if not yet granted: Amendment due 10/29/81. If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? |
| If so: Journal title:; Date: |
| Option Agreement - FIRST LICENSEE: Quanta, Inc. ; Date of license: 7/28/81 . |
| Total license payments to grantee before Oct. 1, 1976: \$0.0 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: SECOND LICENSEE: ; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$ |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$ |
| Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Pescription: |
| Please provide above information for further licenses on the back, and check here: Is invention available to other licensees? Are you still actively seeking licensees? Yes x No |
| FOREIGN PATENT STATUS Country of filing Filing date Filing No. Date Granted Patent No. |

| NSF File Number: 79-97 Disclosure Date: 7/2/79 Waiver Date: |
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| Grantee Institution: Wisconsin Inventor(s): Davies-Harford - |
| Invention Title: Enzymatic Assay of Aminoglycoside Antibiotics in Serum, Urine, Effluents, Animal Feeds, etc. Individual or Organization seeking licensees for invention: |
| WARF |
| X U.S. Patent Application filed. Date: 11/13/79; S.N.: 93,758 |
| U.S. Patent granted. Date: ; No.: |
| Status of patent application if not yet granted: Application abandoned 7/27/81. If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? yes . Antimicrobial Agents and If so: Journal title: Chemotherapy, 14, 69-72 ; Date: July 1978 . |
| FIRST LICENSEE: ; Date of license: |
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| Total license payments to grantee before Oct. 1, 1976: \$0.0 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: |
| SECOND LICENSEE:; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$ |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$ |
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| Please provide above information for further licenses on the back, and check here: . Is invention available to other licensees? Are you still actively seeking licensees? Yes No x |
| FOREIGN PATENT STATUS Country of filing Piling data Filing No. Date Granted Patent No. |

| 79-97-PCM-79-13845 |
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| Grantee Institution: Wisconsin : Inventor(s): Davies-Harford . |
| Invention Title: · Assay for Aminoglycosides |
| Individual or Organization seeking licensees for invention: |
| The control of the warren of the control of the con |
| X U.S. Patent Application filed. Date: 8/25/80; S.N.: 181,270 |
| U.S. Patent granted. Date:; No.: |
| Status of patent application if not yet granted: Amendment due 9/30/81. If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? |
| If so: Journal title: |
| FIRST LICENSEE: ; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$0.0 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; |
| 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended |
| commercial use (use back for extended comments). Date:; Description: |
| SECOND LICENSEE: |
| Total license payments to grantee before Oct. 1, 1976: \$ |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$ |
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| Please provide above information for further licenses on the back, and check here: . Is invention available to other licenses? Are you still actively seeking licensees? Yes x No . |
| Foreign patent status |
| Country of filing Filing date Filing No. Date Granted Patent No. |
| Australia Canada 11 /12 /80 264 550 |
| Canada 11/13/80 364,550 Denmark |
| France |
| 1 |
| Germany |

| NSF File Number: Disclosure Date: 12/4/79 Waiver Date: 80-19-INT-76-05793 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ |
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| Grantee Institution: Wisconsin Inventor(s): DeLuca-Ikekawa-Tanaka Kobayashi |
| Invention Title: 24,24-Difluoro-25-Hydroxycholecalciferol |
| Individual or Organization seeking licensees for invention: |
| The Control of the Co |
| X U.S. Patent Application filed. Date: 3/5/79 ; S.N.: 017.168 |
| $\begin{bmatrix} x \end{bmatrix}$ U.S. Patent granted. Date: $4/1/80$; No.: $4,196,133$ |
| Status of patent application if not yet granted: If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? |
| If so: Journal title: |
| FIRST LICENSEE: ; Date of license:; |
| Total license payments to grantee before Oct. 1, 1976: \$0.0 |
| to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: |
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| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$ |
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| Please provide above information for further licenses on the back, and check here: Is invention available to other licensees? Are you still actively seeking licensees? Yes x No • |
| Foreign patent Status |
| Country of filing Filing date Filing No. Date Granted Patent No. |
| Australia 2/22/80 55/809/80 |
| Canada . 2/28/80 346646 |
| Israel 10/22/79 5/8525 |
| New Zealand 2/8/80 192826 |
| Belgium 3/3/80 199639 3/31/80 882036 . Great Britain 3/3/80 8007118 |

| NSF File Number: Disclosure Date: 1/19/81 Waiver Date: |
|--|
| 81-47-INT-76-05793 Grantee Institution: Wisconsin : Inventor(s): DeLuca-Tanaka-Ikeka |
| |
| Kobayashi |
| Invention Title: 25-Hydroxy-26,26,26,27,27,27-Hexafluorocholecalciferol |
| Individual or Organization seeking licensees for invention: |
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| The state of the s |
| X U.S. Patent Application filed. Date: 2/4/80; S.N.: 118,149 |
| [x] U.S. Patent granted. Date: 2/3/81; No.: 4,248,791 |
| Status of patent application if not yet granted: |
| If U.S. patent has been denied or the application has been abandoned, has |
| the invention been disclosed in a publication? |
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| If so: Journal title:; Date: |
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| FIRST LICENSEE: ; Date of license:: |
| Total license payments to grantee before Oct. 1, 1976: \$0.0 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; |
| 10 15 170 + 0 10 100 100 10 0 10 10 10 10 10 10 10 |
| 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? |
| If so, give date and describe briefly; if not, describe any intended |
| commercial use (use back for extended comments). Date: |
| Description: |
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| SECOND LICENSEE: Date of license: |
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| Total license payments to grantee before Oct. 1, 1976: \$ |
| Payments from Oct. 1. 1976 to Sep. 30, 1977: \$; Oct. 1,1977 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$ |
| to sep. 30, 1976. 9 ; W.L. 1, 1976 to sep. 30, 3272. 9 |
| Has the invention been put into commercial use under this license? |
| If so, give date and describe briefly; if not, describe any intended |
| commercial use (use back for extended comments). Date: |
| Description: |
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| Please provide above information for further licenses on the back, and |
| check here: Is invention available to other licensees? |
| Are you still actively seeking licensees? Yes x No. |
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| FOREIGN PATENT STATUS Country of filing Filing date Filing No. Date Granted Patent No. |
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| Augtorolia 7 /2 /01 |
| Australia 2/3/81 66846/81 |
| New Zealand 1/21/81 196039 |
| New Zealand 1/21/81 196039 Israel 1/19/81 61930 |
| New Zealand 1/21/81 196039 |

| NSF File Number: Disclosure Date: 1/19/81 W 81-48-INT-76-05793 | laiver Date: |
|---|---|
| | DeLuca-Tanaka-Ikekawa- Kobayashi |
| Invention Title: Process for Preparing 24-Fluoro-25- | Hydroxycholecalciferol |
| Individual or Organization seeking licensees for inve | ntion: |
| WARF | |
| x U.S. Patent Application filed. Date: 9/22/80; | S.N.: 189,513 - |
| U.S. Patent granted. Date: No.: | |
| Status of patent application if not yet granted: Appl If U.S. patent has been denied or the application has the invention been disclosed in a publication? | ication has been allowed. been abandoned, has |
| If so: Journal title: | ; Date: |
| FIRST LICENSEE:; Date of | license: |
| Total license payments to grantee before Oct. 1, 1976 | : \$ <u>0.0</u> |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under If so, give date and describe briefly; if not, describe commercial use (use back for extended comments). Date Description: | this license? be any intended |
| SECOND LICENSEE:; Date of : | license: |
| Total license payments to grantee before Oct. 1, 1976 | \$ |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$ to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30 | ; Oct. 1,1977 0, 1979: \$ |
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| Please provide above information for further licenses check here: Is invention available to other license you still actively seeking licensees? Yes x | |
| FOREIGN PATENT STATUS Country of filing Filing date Filing No. Date Country | Granted Patent No. |

| NSF File Number: Disclosure Date: 1/19/81 Waiver Date: 81-49-76-05793 |
|--|
| Grantee Institution: Wisconsin Inventor(s): DeLuca-Ikekawa-Tana |
| Invention Title: 1α-Hydroxy-2β-Fluorocholecalciferol |
| Individual or Organization seeking licensees for invention: |
| The Control of the Warf and the Control of the Cont |
| X U.S. Patent Application filed. Date: 4/21/80; S.N.: 142,552 |
| X U.S. Patent granted. Date: 3/3/81; No.: 4.254.045 |
| Status of patent application if not yet granted: If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? |
| If so: Journal title:; Date: |
| FIRST LICENSEE: ; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$0.0 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: SECOND LICENSEE: ; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$ |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$ |
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| Foreign patent Status |
| Country of filing Filing date Filing No. Date Granted Patent No. |
| Australia 4/15/81 69562/81 |
| Israel 1/30/81 62027 |
| New Zealand 1/27/81 196123 |
| Belgium 4/17/81 204531 |
| France 4/15/81 8107611 |

| NSF File Number: 80-20-INT-76-05793 | Disclos | ure Date: 12/4/79 | Waiver Date: |
|---|--|--|---|
| Grantee Institution: | Wisconsin | Inventor(s): | DeLuca-Schnoes-Ikekawa- Tanaka-Kobayashi |
| Invention Title: 24,2 | 4-Difluoro-1 | α , 25-Dihydroxychol | |
| Individual or Organiz | ation seekin | g licensees for inve | ention: |
| Warf | | | |
| X U.S. Patent Applic | ation filed. | Date: 3/28/79; | S.N.: 024.848 |
| X U.S. Patent grante | d. Date: | 5/6/80 ; No.: 4,2 | 201_881• |
| Status of patent appl If U.S. patent has be the invention been dis | en denied or | the application has | been abandoned, has |
| If so: Journal title | | | ; Date: |
| FIRST LICENSEE: | | ; Date of | license: |
| Total license payments | to grantee | before Oct. 1, 1976 | 5: \$ <u>0. 0</u> |
| Payments from Oct. 1, to Sep. 30, 1978: \$0.0 10/1/79 to 9/30/80: \$0.0 Has the invention bear If so, give date and commercial use (use be Description: | .0; 10/1/80 Tput into co lescribe brie | to 9/30/81: \$0.0. Commercial use under efly; if not, descri | this license? be any intended |
| SECOND LICENSEE: | | ; Date of | license: |
| Total license payments | to grantee | before Oct. 1, 1976 | |
| Payments from Oct. 1, to Sep. 30, 1978: \$ | 1976 to Sep. | 30, 1977: \$ 1, 1978 to Sep. 3 | ; Oct. 1,1977 0, 1979: \$ |
| Has the invention been If so, give date and dommercial use (use batterion: | escribe brie | fly; if not, descri | be any intended |
| Please provide above i check here: . Is Are you still actively | invention av | ailable to other li | censees? |
| | FORTON | PATENT STATUS | 经产生, 国际工程等未定置等。 |
| Country of filing Australia | Filing date 2/22/80 | Filing No. Date 55810/80 | Granted Patent No. |
| Canada | 1/17/80 | 343886 | |
| | 10/22/79 | | 法国的 医医皮肤管的 |
| New Zealand Relainm | 10/23/79 3/7/80 | | 31/80 822.143 |

| NSF File Number: Disclosure Date: 12/4/79Waiver Date: 80-20-INT-76-05793 |
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| Grantee Institution: Wisconsin Inventor(s): DeLuca-Schnoes-Ikekay Tanaka-Kobayashi |
| Invention Title: 24,24, -Difluoro- 1α ,25-Dihydroxycholecalciferol |
| Individual or Organization seeking licensees for invention: |
| THE REPORT OF THE WARFING THE SECOND STATE OF THE SECOND S |
| X U.S. Patent Application filed. Date: 8/6/79 : S.N.: 064.254 |
| (Division of U.S. S. N. 024, 848) [X] U.S. Patent granted. Date: 10/7/80; No.: 4,226,788 |
| Status of patent application if not yet granted: |
| If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? |
| If so: Journal title:; Date: |
| FIRST LICENSEE: ; Date of license:; |
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| das the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: |
| Please provide above information for further licenses on the back, and check here: Is invention available to other licensees? Are you still actively seeking licensees? Yes X No |
| FOREIGN PATENT STATUS Country of filing Filing date Filing No. Date Granted Patent No. |

| NSF File Number: 80-68 Disclosure Date: 5/21/80 Waiver Date: |
|--|
| Grantee Institution: Wisconsin : Inventor(s): Hart-Blackbourn |
| Invention Title: Multiple-Frequency-Generation for NMR Spectroscopy |
| Individual or Organization seeking licensees for invention: WARF |
| U.S. Patent Application filed. Date: ; S.N.: Advised NSF 7/7/81 that we would not file a patent application due to insufficient U.S. Patent granted. Date: No.: information. |
| Status of patent application if not yet granted: If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? |
| If so: Journal title: ; Date: |
| FIRST LICENSEE: ; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$0.0 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: SECOND LICENSEE: ; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$; |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$ |
| Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date:; Description: |
| Please provide above information for further licenses on the back, and check here: Is invention available to other licensees? Are you still actively seeking licensees? Yes No x |
| FOREIGN PATENT STATUS Country of filing Filing date Filing No. Date Granted Patent No. |

| MSr File Number: 79-64 Disclosure Date: 3/21/79 Waiver Date: |
|---|
| Grantee Institution: Wisconsin Inventor(s): Hartwig-Perepezko |
| Invention Title: Strengthened Metallic Alloys for High Conductivity Application at Cryogenic Temperatures Individual or Organization seeking licensees for invention: |
| THE REPORT OF THE PARTY OF THE |
| X U.S. Patent Application filed. Date: 10/12/79; S.N.: 84.199 . |
| U.S. Patent granted. Date:; No.: |
| Status of patent application if not yet granted: <u>under Appeal</u> . If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? |
| If so: Journal title:; Date: |
| FIRST LICENSEE: ; Date of license:; |
| Total license payments to grantee before Oct. 1, 1976: \$0.0 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: SECOND LICENSEE: ; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$ |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$ |
| Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: |
| Please provide above information for further licenses on the back, and check here: Is invention available to other licensees? Are you still actively seeking licensees? Yes X |
| FOREIGN PATENT STATUS Country of filing Filing date Filing No. Date Granted Patent No. |

| NSF File Number: Disclosure Date: 7/16/81 Waiver Date: |
|--|
| 81-80-DMR-78-25754 |
| Grantee Institution: Wisconsin Inventor(s): Lagally-Martin |
| Invention Title: Scanning Low-Energy Electron Diffractometer with a Field |
| Emission Source |
| Individual or Organization seeking licensees for invention: |
| WARF |
| U.S. Patent Application filed. Date: S.N.: |
| Invention being evaluated for potential patentability. |
| U.S. Patent granted. Date: No.: |
| Status of patent application if not yet granted: |
| If U.S. patent has been denied or the application has been abandoned, has |
| the invention been disclosed in a publication? |
| |
| If so: Journal title: ; Date: |
| |
| FIRST LICENSEE: ; Date of license:; |
| Moto? license perments to mentes before Oak 1 1076, CO O |
| Total license payments to grantee before Oct. 1, 1976: \$0.0 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; |
| 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. |
| Has the invention been put into commercial use under this license? |
| If so, give date and describe briefly; if not, describe any intended |
| commercial use (use back for extended comments). Date: |
| Description: |
| property recommends |
| SECOND LICENSEE: ; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$ |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 |
| to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$ |
| |
| Has the invention been put into commercial use under this license? |
| If so, give date and describe briefly; if not, describe any intended |
| commercial use (use back for extended comments). Date: |
| Description: |
| |
| Please provide above information for further licenses on the back, and |
| chack here: . Is invention available to other licensees? |
| Are you still actively seeking licensees? Yes No. |
| Foreign patent Status |
| Country of filing Filing date Filing No. Date Granted Patent No. |
| The same and the same and same |

| NSF File Number: Disclosure Date: 7/22/80 Waiver Date: 80-90-ENG-72-04229 |
|--|
| Grantee Institution: Wisconsin Inventor(s): Langer-Pate |
| Invention Title: Electrogenerative Reduction of Nitrogen Oxides |
| Individual or Organization seeking licensees for invention: |
| WARF |
| x U.S. Patent Application filed. Date: 5/23/80; S.N.: 152,728 |
| U.S. Patent granted. Date: ; No.: |
| Status of patent application if not yet granted: under Amendment |
| If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? |
| If so: Journal title:; Date: |
| FIRST LICENSEE: ; Date of license:; |
| Total license payments to grantee before Oct. 1, 1976: \$0.0 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. |
| Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended |
| commercial use (use back for extended comments). Date: |
| SECOND LICENSEE: ; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$ |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$ |
| Has the invention been put into commercial use under this license? |
| If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date:; Description: |
| |
| Please provide above information for further licenses on the back, and check here: Is invention available to other licensees? |
| Are you still actively seeking licensees? Yes x No. |
| FOREIGN PATENT STATUS Country of filing Piling date Piling No. Date Granted Patent No. |

OMB NO. 99-R0308 APPROVAL EXPIRES: April 30, 1981 No change from 1980

| NSF File Number: 74-52 Disclosure Date: 2/22/74 Waiver Date: |
|---|
| Grantee Institution: Wisconsin Inventor(s): Mayhugh-Fullerton |
| Invention Title: Sensitized Thermoluminiscent Phosphor and Method |
| Individual or Organization seeking licensees for invention: |
| WARF WARF WARF WARF WARF WARF WARF WARF |
| U.S. Patent granted. Date: 6/8/76 : No.: 3,962,586 |
| Status of patent application if not yet granted: If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? |
| If so: Journal title:; Date: |
| FIRST LICENSEE:; Date of license:; |
| Total license payments to grantee before Oct. 1, 1976: \$0.0 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: SECOND LICENSEE: ; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$ |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$ |
| Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: |
| Please provide above information for further licenses on the back, and check here: Is invention available to other licensees? Are you still actively seeking licensees? Yes x No |
| FOREIGN PATENT STATUS Country of filing Filing date Filing No. Date Granted Patent No. |

| MSF File Number: /8-22 Disclosure Date: 1/3/78 Waive | r Date: |
|---|--------------------------|
| Grantee Institution: Wisconsin Inventor(s): Mi | stretta |
| Invention Title: Time Dependent Subtraction Imaging - Ma | ask Mode |
| Individual or Organization seeking licensees for invention | n: Profile and Albertain |
| WARF | |
| | |
| X U.S. Patent Application filed. Date: 11/15/78: S.N. | |
| (c-i-p of S. N. 906,686 Wu.S. Patent granted. Date: 5/20/80 No.: 4.204.2 | - abandoned 6/15/79) |
| Status of patent application if not yet granted: If U.S. patent has been denied or the application has bee the invention been disclosed in a publication? | n abandoned, has |
| If so: Journal title: | nata- |
| N. V. Philips Gloeilampen- | Date: |
| FIRST LICENSEE: fabrienken, Netherlands; Date of lice | nse: 1/1/70 • Cancella |
| Entered into new Agreement with PHILIPS - | 7/1/81 |
| Entered into new Agreement with PHILIPS - Total license payments to grantee before Oct. 1, 1976: \$0. | 6/1/81. |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this If so, give date and describe briefly; if not, describe as commercial use (use back for extended comments). Date: Judgments of Description: | license? <u>yes</u> |
| | |
| SECOND LICENSEE: ; Date of licen | ise: |
| Total license payments to grantee before Oct. 1, 1976: \$ | |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$ | ; Oct. 1,1977 |
| Has the invention been put into commercial use under this If so, give date and describe briefly; if not, describe a commercial use (use back for extended comments). Date: | |
| Description: | |
| Please provide above information for further licenses on the check here: . Is invention available to other license are you still actively seeking licensees? Yes x No. | es? |
| TONOTON NAMED OF CONTROL | |
| FOREIGN PATENT STATUS Country of filing Filing date Filing No. Date Grant | ed Patent No. |
| Canada 5/16/79 327771 | |
| Holland 5/15/79 79.03807 | |
| Japan 5/16/79 60249/79 | |
| Great Britain 5/11/79 7916534 | |
| W. Germany 5/15/79 P29194250 | |
| France 5/15/79 7913277 | • |
| | \$ II |

| NSF File Number: 78-29 Disclosure Date: 1/3/78 Waiver Date: |
|---|
| Grantee Institution: Wisconsin Inventor(s): Mistretta-Kruger-Houk |
| Invention Title: Time Interval Differencing Without Contrast Agent |
| Individual or Organization seeking licensees for invention: |
| WARF [X] U.S. Patent Application filed. Date: 5/16/78; S.N.: 906.631 . |
| \[\text{v.s. Patent granted. Date: \(\frac{5/20/80}{200} \); \text{No.: \(\frac{4.204.226}{200} \). |
| Status of patent application if not yet granted: If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? |
| If so: Journal title: ; Date: (See NSF File Number 78-22: |
| FIRST LICENSEE: licensed to PHILIPS under ; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$0.0 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$(See NSF File 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0 . Number 78-22 Has the invention been put into commercial use under this license? yes If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: July 1981; Description: |
| SECOND LICENSEE: ; Date of license: . |
| Total license payments to grantee before Oct. 1, 1976: \$ |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$ |
| Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Conscription: |
| Please provide above information for further licenses on the back, and check here: Is invention available to other licensees? Are you still actively seeking licensees? Yes X No |
| FOREIGN PATENT STATUS |
| Country of filing Filing date Filing No. Date Granted Patent No. Canada 5/16/79 327772 |

| NSF File Number: /9-50 Disclosure Date: 2/19/79 Waiver Date: |
|--|
| Grantee Institution: Wisconsin Inventor(s): Mistretta-Kruger-Riederer |
| Invention Title: Digital Fluoroscopic Three-Beam K-Edge Imaging of lodine on a Point by Point Basis Using Differences Individual or Organization seeking licensees for invention: |
| Land Committee C |
| U.S. Patent Application filed. Date: ; S.N.: No patent application filed to date; awaiting more data from inventors. U.S. Patent granted. Date: ; No.: |
| Status of patent application if not yet granted: If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? |
| If so: Journal title:; Date: |
| FIRST LICENSEE: ; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$0.0 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date:; Description: |
| SECOND LICENSEE:; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$ |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$ |
| Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: |
| Please provide above information for further licenses on the back, and check here: Is invention available to other licensees? Are you still actively seeking licensees? Yes No |
| FOREIGN PATENT STATUS Country of filing Filing data Filing No. Date Granted Patent No. |

STATUS OF NSF-FUNDED INVENTION April 30, 1981

| NSr File Number: 79-70 Disclosure Date: 3/26/79 Waiver Date: |
|--|
| Grantee Institution: Wisconsin Inventor(s): Rasmussen-Loper-Perepezko |
| Invention Title: Emulsification of Metals in Glass and Molten Salts |
| Individual or Organization seeking licensees for invention: |
| |
| x U.S. Patent Application filed. Date: 9/26/80; S.N.: 190,948 |
| U.S. Patent granted. Date: ; No.: . |
| Status of patent application if not yet granted: Awaiting 1st Office Action. If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? |
| If so: Journal title:; Date: |
| FIRST LICENSEE:; Date of license:; |
| Total license payments to grantee before Oct. 1, 1976: \$0.0 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: |
| SECOND LICENSEE: ; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$ |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$ |
| Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date:; Description: |
| Please provide above information for further licenses on the back, and check here: Is invention available to other licensees? Are you still actively seeking licensees? Yes x No |
| FOREIGN PATENT STATUS Country of filing Filing date Filing No. Date Granted Patent No. |

Same as 1980 NSF File Number: 79-69 Disclosure Date: 3/26/79 Waiver Date: Grantee Institution: Wisconsin Inventor(s): Rasmussen-Loper-Perepezko Invention Title: Control of Solidification Microstructure by the Use of Emulsified Metal Droplets Individual or Organization seeking licensees for invention: WARF U.S. Patent Application filed. Date: ____; S.N.: ____ Application drafted; awaiting more data from inventors. U.S. Patent granted. Date: _____; No.: ____ Status of patent application if not yet granted: If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? If so: Journal title: ; Date: ; Date of license: FIRST LICENSEE: Total license payments to grantee before Oct. 1, 1976: \$0.0 Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: ; Date of license: SECOND LICENSEE: Total license payments to grantee before Oct. 1, 1976: \$ Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1, 1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$... Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: Please provide above information for further licenses on the back, and check here: . Is invention available to other licensees? . Are you still actively seeking licensees? Yes x No

FOREIGN PATENT STATUS

Country of filing Filing date Filing No. Date Granted Patent No.

| NSF File Number: 79-71 Disclosure | Date: 3/26/79 Waiver Date: |
|---|--|
| Grantee Institution: Wisconsin | Inventor(s): Rasmussen-Loper- Perepezko-Anderson |
| Invention Title: Use of Emulsified N | Metal Droplets as Seeds for the Production |
| of Nonequilibrium P Individual or Organization seeking 1 | hases icensees for invention: |
| WARF | |
| U.S. Patent Application filed. D | ate: : S.N.: |
| No application has been filed to dat U.S. Patent granted. Date: | te; awaiting more data from inventors. |
| Status of patent application if not | vat granted- |
| If U.S. patent has been denied or the the invention been disclosed in a pul | e application has been abandoned, has |
| 75 | |
| If so: Journal title: | ; Date: |
| FIRST LICENSEE: | ; Date of license: |
| Total license payments to grantee bef | fore Oct. 1, 1976: \$0.0 |
| Payments from Oct. 1, 1976 to Sep. 30 to Sep. 30, 1978: \$0.0 ; Oct. 3 10/1/79 to 9/30/80: \$0.0; 10/1/80 to Has the invention been put into commercial use (use back for extended Description: | 1, 1978 to Sep. 30, 1979: \$0.0 ; 9/30/81: \$0.0 . ercial use under this license? y; if not, describe any intended |
| SECOND LICENSEE: | ; Date of license: |
| Total license payments to grantee bef | |
| Payments from Oct. 1, 1976 to Sep. 30 to Sep. 30, 1978: \$; Oct. 1 | , 1977: \$ |
| Has the invention been put into comme If so, give date and describe briefly commercial use (use back for extended Description: | ; if not, describe any intended |
| Please provide above information for check here: . Is invention avail Are you still actively seeking licens | able to other licensees? |
| FOREIGN PA | TENT STATUS iling No. Date Granted Patent No. |

STATUS OF NSF-FUNDED INVENTION April 30, 1981

| NSF File Number: 78-83 Disclosure Date: 8/4/78 Waiver Date: |
|--|
| Grantee Institution: Wisconsin : Inventor(s): Scott |
| Invention Title: Fluxon Oscillators |
| Individual or Organization seeking licensees for invention: |
| The state of the warr of the state of the st |
| X U.S. Patent Application filed. Date: 7/12/78; S.N.: 923,955 |
| X U.S. Patent granted. Date: 1/1/80; No.: 4,181,902 |
| Status of patent application if not yet granted: |
| If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? |
| If so: Journal title:; Date: |
| FIRST LICENSEE:; Date of license:; |
| Total license payments to grantee before Oct. 1, 1976: \$0.0 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date:; |
| Description: |
| |
| SECOND LICENSEE: |
| Potal license payments to grantee before Oct. 1, 1976: \$ |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$ |
| las the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: |
| Please provide above information for further licenses on the back, and check here: Is invention available to other licensees? Are you still actively seeking licensees? Yes x No |
| FOREIGN PATENT STATUS Country of filing Filing date Filing No. Date Granted Patent No. |

OMB NO. 99-R0308 APPROVAL EXPIRES: April 30, 1981

STATUS OF NSF-FUNDED INVENTION

Same as 1980

NSF File Number: 75-99 Disclosure Date: 2/13/75 Waiver Date: Grantee Institution: Wisconsin Inventor(s): Skoog-Schmitz-Hecht-Frye Invention Title: · Cytokinin Antagonists and Method of Production and Use Individual or Organization seeking licensees for invention: X U.S. Patent Application filed. Date: 4/24/74 ; S.N.: 463,739 X U.S. Patent granted. Date: 10/26/76; No.: 3,988,338 Status of patent application if not yet granted: If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? If so: Journal title: ; Date: FIRST LICENSEE: Burroughs-Wellcome ; Date of license: 4/1/76 - : License terminated 4/1/79 Total license payments to grantee before Oct. 1, 1976: \$1,000 Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: ; Date of license: _____ SECOND LICENSEE: Total license payments to grantee before Oct. 1, 1976: \$ Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$ Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: Please provide above information for further licenses on the back, and check here: . Is invention available to other licensees? . . Are you still actively seeking licensees? Yes x FOREIGN PATENT STATUS Filing No. Date Granted Patent No.

Country of filing Filing date

| MSr File Number: 79-00 Disclosure Date: 3/20/19 Walver Date: |
|---|
| Grantee Institution: Wisconsin Inventor(s): Smith-Perepezko- |
| Rasmussen-Loper Invention Title: The Compaction of Amorphous Droplets Produced by |
| Emulsification Individual or Organization seeking licensees for invention: |
| THE REPORT OF THE PARTY OF THE |
| X U.S. Patent Application filed. Date: 11/13/78 S.N.: 960,100 |
| X U.S. Patent granted. Date: 8/4/81; No.: 4,282,034 |
| Status of patent application if not yet granted: |
| If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? |
| If so: Journal title: ; Date: |
| FIRST LICENSEE: ; Date of license: ; |
| Total license payments to grantee before Oct. 1, 1976: \$0.0 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0; Oct. 1, 1977 |
| to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; |
| 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? |
| If so, give date and describe briefly; if not, describe any intended |
| commercial use (use back for extended comments). Date:; Description: |
| |
| SECOND LICENSEE: |
| Total license payments to grantee before Oct. 1, 1976: \$ |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$ |
| |
| Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended |
| commercial use (use back for extended comments). Date:; Description: |
| Please provide above information for further licenses on the back, and check here: . Is invention available to other licensees? |
| Are you still actively seeking licensees? Yes x No |
| FOREIGN PATENT STATUS |
| Country of filing Filing date Filing No. Date Granted Patent No. Canada 11/13/79 339,652 |
| |

NSF File Number: 75-121' Disclosure Date: 3/18/75 Waiver Date: Grantee Institution: Wisconsin Inventor(s): Trost-Tamaru

Invention Title: Oxidative Decarboxylation of Carboxylic Acids

| Individual or Organization seeking licensees for invention: |
|--|
| THE STATE OF THE WARRENCE OF THE STATE OF TH |
| X U.S. Patent Application filed. Date: 5/19/75: S.N.: 578,533 |
| X U.S. Patent granted. Date: 2/8/77; No.: 4,007,211 |
| Status of patent application if not yet granted: If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? |
| If so: Journal title:; Date: |
| FIRST LICENSEE: ; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$0.0 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: SECOND LICENSEE: ; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$ |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$ |
| Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: |
| Please provide above information for further licenses on the back, and check here: Are you still actively seeking licensees? Yes x No . |
| FOREIGN PATENT STATUS Country of filing Filing date Filing No. Date Granted Patent No. |
| promoned on whitehat there there takes make a transfer that |

OMB NO. 99-KUJUO APPROVAL EXPIRES: April 30, 1981

STATUS OF NSF-FUNDED INVENTION

Same as 1980

| MSr File Number: 70-92 Disclosure Date: 2/6//6 Waiver Date: |
|---|
| Grantee Institution: Wisconsin : Inventor(s): Trost-Verhoeven |
| Invention Title: Catalytic Allylic Alkylation |
| Individual or Organization seeking licensees for invention: WARF |
| X U.S. Patent Application filed. Date: 1/5/76; S.N.: 646,640 |
| X U.S. Patent granted. Date: 9/27/77: No.: 4.051,157 |
| Status of patent application if not yet granted: If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? |
| If so: Journal title:; Date:; |
| FIRST LICENSEE: ; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$0.0 . |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended |
| commercial use (use back for extended comments). Date:; Description: |
| SECOND TICENSEE: ; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$ |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$ |
| Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: |
| Please provide above information for further licenses on the back, and check here: Is invention available to other licensees? Are you still actively seeking licensees? Yes NO |
| FOREIGN PATENT STATUS Country of filing Filing date Filing No. Date Granted Patent No. |

| NSF File Number: Disclosure Date: 6/23/80 Waiver Date: 80-75-CHE-76-15113 |
|--|
| Grantee Institution: Wisconsin Inventor(s): Trost-Vincent . |
| Invention Title: Ring Expansion and Chain Extension Process and Reagents |
| Individual or Organization seeking licensees for invention: |
| WARF CONTROL OF THE C |
| X U.S. Patent Application filed. Date: 7/3/80; S.N.: 165,768 |
| U.S. Patent granted. Date:; No.: |
| Status of patent application if not yet granted: under Amendment If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? |
| If so: Journal title: ; Date: . |
| FIRST LICENSEE:; Date of license:; |
| Total license payments to grantee before Oct. 1, 1976: \$0.0 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? |
| If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: |
| SECOND LICENSEE: ; Date of license: . |
| Total license payments to grantee before Oct. 1, 1976: \$ |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$ |
| Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: |
| Please provide above information for further licenses on the back, and check here: Is invention available to other licensees? The you still actively seeking licensees? Yes x No |
| FOREIGN PATENT STATUS Country of filing Piling date Filing No. Date Cranted Patent No. |

| NSF File Number: 76-39 Disclosure Date: 9/30/75 Waiver Date: |
|---|
| Grantee Institution: Wisconsin Inventor(s): Walters |
| Invention Title: Mestastable Argon Stabilized Arc Device |
| Individual or Organization seeking licensees for invention: |
| WARF X U.S. Patent Application filed. Date: 9/17/75; S.N.: 614,194 |
| X U.S. Patent granted. Date: 11/29/77 No.: 4,060,708 |
| Status of patent application if not yet granted: If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? If so: Journal title: ; Date: |
| |
| FIRST LICENSEE: ; Date of license:; |
| Total license payments to grantee before Oct. 1, 1976: \$0.0 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date:; Description: |
| SECOND LICENSEE: ; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$ |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$ |
| Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: |
| Please provide above information for further licenses on the back, and check here: Is invention available to other licensees? Are you still actively seeking licensees? Yes x No |
| FOREIGN PATENT STATUS Country of filing Filing date Filing No. Date Granted Patent No. Canada 9/16/76 261,337 5/6/80 1077125 Germany 9/16/76 P2641618.2 - abandoned 7/81 Great Britain 9/10/76 37633/76 1/30/80 1556741 - abandoned |
| Great Britain 9/10/76 37633/76 1/30/80 1556741 - abandoned Japan 9/17/76 111657/76 - abandoned 7/81 9/10/81 |

: Date of license:

STATUS OF NSF-FUNDED INVENTION

No change from 1980
NSF File Number: 74-46 Disclosure Date: 2/5/74 Waiver Date:

Grantee Institution: Wisconsin Inventor(s): Walters-Bernier

Invention Title: Spark Source with Electronic Switching Tubes

Individual or Organization seeking licensees for invention:

WARF

X U.S. Patent Application filed. Date: 4/16/75; S.N.: 568,577

x U.S. Patent granted. Date: 8/3/76; No.: 3,973,167

FIRST LICENSEE:

Status of patent application if not yet granted:

If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication?

If so: Journal title: _____; Date: _____.

Total license payments to grantee before Oct. 1, 1976: \$0.0

Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0; Oct. 1, 1977 to Sep. 30, 1978: \$0.0; Oct. 1, 1978 to Sep. 30, 1979: \$0.0; 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. (See Has the invention been put into commercial use under this license? over). If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date:

SECOND LICENSEE: ; Date of license: ____.

Total license payments to grantee before Oct. 1, 1976: \$_____.

Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$...

Has the invention been put into commercial use under this license?

If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date:

Description:

Please provide above information for further licenses on the back, and check here:

. Is invention available to other licenses?

Are you still actively seeking licensees? Yes x No
.

FOREIGN PATENT STATUS

| | FUNCIGN | PRICEL DIVIO | | | |
|-------------------|-----------------|------------------|----------------|------------|--|
| Country of filing | Filing date | Filing No. | Date Granted | Patent No. | |
| Brazil | 2/20/75 | 1380/75 - al | bandoned 12/2/ | /77 | |
| Canada | 2/21/75 | 220,578 | 9/26/78 | 1039346 | |
| W. Germany | 2/ 8/75 | P2505392.3 | | | |
| Great Britain | 2/ 20/75 | 7155175 | 2/1/78 | 1487816 | |
| Japan | 2/20/75 | 2 1400/75 | | | |
| Canada (Div.) | 2/ 20/78 | 297,261 | 1/2/79 | 1045675 | |
| | | | | | |

| MSI TITE NUMBER: 70-132 DISCIOSULE BACE: 5/3//6 Marver bace: |
|---|
| Grantee Institution: Wisconsin Inventor(s): Walters-Coleman. |
| Invention Title: Spark Source with Regulation of Spark Magnitude by Control of Spark Timing |
| of Spark Timing Individual or Organization seeking licensees for invention: |
| WARF |
| X U.S. Patent Application filed. Date: 3/1/76; S.N.: 662,891 . |
| X U.S. Patent granted. Date: 10/25/77; No.: 4.055,783 |
| Status of patent application if not yet granted: If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? |
| If so: Journal title:; Date: |
| FIRST LICENSEE:; Date of license:; |
| Total license payments to grantee before Oct. 1, 1976: \$0.0 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. |
| If so, give date and describe briefly; if not, describe any intended |
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| SECOND LICENSEE:; Date of license: |
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| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$ |
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| Please provide above information for further licenses on the back, and check here: Is invention available to other licensees? Are you still actively seeking licensees? Yes X No |
| FOREIGN PATENT STATUS Country of Filing Poling No. Pate Granted Patent No. |
| Country of filing Filing date Filing No. Date Granted Patent No. Canada 9/9/77 286,403 11/18/80 1,089,926 |

No change from 1980

| NSF File Number: 76-122 Disclosure Date: 3/15/76 Waiver Date: |
|--|
| Grantee Institution: Wisconsin Inventor(s): West-Beyer-Komatsu |
| Invention Title: Quinocyclopropene Derivatives |
| Individual or Organization seeking licensees for invention: |
| WARF [X] U.S. Patent Application filed. Date: 3/15/77; S.N.: 777.836. |
| X U.S. Patent granted. Date: 1/9/79; No.: 4,133,821 |
| Status of patent application if not yet granted: If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? |
| If so: Journal title:; Date: |
| FIRST LICENSEE:; Date of license:; |
| Total license payments to grantee before Oct. 1, 1976: \$0.0 . |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: |
| SECOND LICENSEE:; Date of license: |
| Potal license payments to grantee before Oct. 1, 1976: \$ |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$ |
| Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Sescription: |
| Please provide above information for further licenses on the back, and check here: Is invention available to other licensees? Yes x No |
| FOREIGN PATENT STATUS Country of filing Filing date Filing No. Date Granted Patent No. |

No change from 1980 NSF File Number: 76-140' Disclosure Date: 3/25/76 Waiver Date: Grantee Institution: Wisconsin Inventor(s): [. C. Wright Invention Title: Chemical Analysis of Ions Incorporated in Lattices Using Coherent Excitation Sources Individual or Organization seeking licensees for invention: X U.S. Patent Application filed. Date: 2/11/76; S.N.: 657.252 X U.S. Patent granted. Date: 2/8/77; No.: 4.007.009 Status of patent application if not yet granted: If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? If so: Journal title: : Date: ; Date of license: FIRST LICENSEE: Total license payments to grantee before Oct. 1, 1976: \$0.0 Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: ; Date of license: SECOND LICENSEE: Total license payments to grantee before Oct. 1, 1976: \$_____ Payments from Oct. 1, 1976 to Sep. 30, 1977: \$_____ to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$ Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: Please provide above information for further licenses on the back, and check here: . Is invention available to other licensees? . Are you still actively seeking licensees? Yes X FOREIGN PATENT STATUS

Country of filing Filing date Filing No. Date Granted Patent No. Canada 2/1/77 270,802 1/1/80 1068930

| NSF File Number: 80-45 Disclosure Date: 2/26/80 Waiver Date: |
|---|
| Grantee Institution: Wisconsin Inventor(s): Zeikus & Ben-Bassat & Lamed & Ng |
| Invention Title: Ethanol Production from Cellulosic Biomass by Co-cultures of Clostridium Thermocellum and a New Isolate Clostridium Thermohydrosulfuricum Individual or Organization seeking licensees for invention: Strain 39E |
| WARF |
| X U.S. Patent Application filed. Date: 1/14/81; S.N.: 225.093 |
| U.S. Patent granted. Date: No.: |
| Status of patent application if not yet granted: Awaiting 1st Office Action If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? |
| If so: Journal title:; Date: |
| FIRST LICENSEE: ; Date of license: . |
| Total license payments to grantee before Oct. 1, 1976: \$0.0 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date:; Description: |
| SECOND LICENSEE: ; Date of license: . |
| Total license payments to grantee before Oct. 1, 1976: \$ |
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| Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: |
| Please provide above information for further licenses on the back, and check here: Is invention available to other licensees? Are you still actively seeking licensees? Yes x No |
| FOREIGN PATENT STATUS Country of filing Filing date Filing No. Date Granted Patent No. |

STATUS OF NSF-FUNDED INVENTION April 30, 1981

| NSF File Number: Disclosure Date: 2/9/81 Waiver Date: 81-54-DEB-78-24071 |
|--|
| Grantee Institution: Wisconsin Inventor(s): Zeikus-Lynd . |
| Invention Title: Bioconversion of Organic Pyrolysis Products to Chemical Feedstocks by Novel Technology that Employs Acidogenic Bacteria Individual or Organization seeking licensees for invention: |
| |
| U.S. Patent Application filed. Date: 7/23/81; S.N.: 286,246 |
| U.S. Patent granted. Date: ; No.: |
| Status of patent application if not yet granted: Awaiting 1st Office Action If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? |
| If so: Journal title: ; Date: |
| FIRST LICENSEE: ; Date of license: ; |
| Total license payments to grantee before Oct. 1, 1976: \$0.0 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; |
| 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? |
| If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: |
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| SECOND LICENSEE: ; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$ |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$ |
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| Please provide above information for further licenses on the back, and check here: Are you still actively seeking licensees? Yes x No |
| FOREIGN PATENT STATUS Country of filing Filing date Filing No. Date Granted Patent No. |

OMB NO. 99-KOJOO APPROVAL EXPIRES: April 30, 1981 No change from 1980

| NSF File Number: /4-02 Disclosure Date: 3/26/74 Walver Date: |
|---|
| Grantee Institution: Wisconsin Inventor(s): Anderson et al |
| Invention Title: Molecular Nitrogen Laser |
| Individual or Organization seeking licensees for invention: WARF |
| X U.S. Patent Application filed. Date: 5/20/75; S.N.: 579,268 |
| x U.S. Patent granted. Date: 2/28/78; No.: 4.077.020 |
| Status of patent application if not yet granted: If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? |
| If so: Journal title: *Anderson, Louis W. FIRST LICENSEE: Fitzsimmons, William A; Date of license: 4/11/78 National Research Group, Inc. Total license payments to grantee before Oct. 1, 1976: \$0.0 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 . 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0 Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: ; Description: SECOND LICENSEE: ; Date of license: . |
| Total license payments to grantee before Oct. 1, 1976: \$ |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$. |
| Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: |
| Please provide above information for further licenses on the back, and check here: Is invention available to other licensees? Are you still actively seeking licensees? Yes x No |
| FOREIGN PATENT STATUS Country of filing Filing date Filing No. Date Granted Patent No. |

*Invention was put into use by inventors and their jointly owned Company before patent issued. Royalty-free license was issued to inventors and to their jointly owned Company under waiver provisions from Department of Energy.

| Nor File Number: /9-21 Disclosure Date: 12/6//8 Waiver Date: |
|--|
| Grantee Institution: Wisconsin Inventor(s): Davida-Kam |
| Invention Title: A Complete Substitution Permutation Enciphering and Deciphering Circuit Individual or Organization seeking licensees for invention: |
| The control of the warf of the control of the contr |
| X U.S. Patent Application filed. Date: 10/2/78; S.N.: 947,428 |
| x U.S. Patent granted. Date: 6/23/81; No.: 4.275.265 |
| Status of patent application if not yet granted: If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? |
| If so: Journal title:; Date: |
| FIRST LICENSEE:; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$0.0 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; |
| 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended |
| commercial use (use back for extended comments). Date: |
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| SECOND LICENSEE:; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$ |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$ |
| Has the invention been put into commercial use under this license? |
| If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date:; Description: |
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| Please provide above information for further licenses on the back, and check here: . Is invention available to other licensees? |
| Are you still actively seeking licensees? Yes x No. |
| FOREIGN PATENT STATUS Country of filing Filing date Filing No. Date Granted Patent No. |

| Same as 1980 NSF File Number: 77-36 Disclosure Date: 12/22/76 Waiver Date: |
|---|
| Grantee Institution: Wisconsin Inventor(s): Davida-Wells |
| Invention Title: Digital Data Enciphering and Deciphering Circuit and Method |
| Individual or Organization seeking licensees for invention: |
| |
| X U.S. Patent Application filed. Date: 10/3/77; S.N.: 839,034 |
| X U.S. Patent granted. Date: 5/6/80; No.: 4,202,051 |
| Status of patent application if not yet granted: If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? |
| If so: Journal title: ; Date: . |
| Option Agreement - FIRST LICENSEE: Quanta, Inc. ; Date of license: 7/28/81 . |
| Total license payments to grantee before Oct. 1, 1976: \$0.0 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date:; Description: |
| SECOND LICENSEE: ; Date of license: . |
| Potal license payments to grantee before Oct. 1, 1976: \$ |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$ |
| Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: |
| Please provide above information for further licenses on the back, and check here: Is invention available to other licensees? Are you still actively seeking licensees? Yes X NO |
| FOREIGN PATENT STATUS Country of filing Filing date Filing No. Date Granted Patent No. |
| Country of fifting date fitting No. Date Granted Facent No. |

| NSF File Number: Disclosure Date: 6/17/80 Waiver Date: 80-73-MCS77-02156 |
|---|
| Grantee Institution: Wisconsin Inventor(s): Davida-Wells-Kam |
| Invention Title: A Database Encryption System with Subkeys |
| Individual or Organization seeking licensees for invention: |
| The state of the warren of the state of the |
| X U.S. Patent Application filed. Date: 1/30/80; S.N.: 117,140 |
| U.S. Patent granted. Date: ; No.: |
| Status of patent application if not yet granted: Amendment due 10/29/81. If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? |
| If so: Journal title: ; Date: . |
| Option Agreement - FIRST LICENSEE: Quanta Inc. ; Date of license: 7/28/81 |
| Total license payments to grantee before Oct. 1, 1976: \$0.0 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date:; Description: |
| SECOND LICENSEE:; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$ |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$ |
| Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: |
| Please provide above information for further licenses on the back, and check here: Is invention available to other licensees? Are you still actively seeking licensees? Yes x No |
| FOREIGN PATENT STATUS Country of filing Filing date Filing No. Date Granted Patent No. |

| NSF File Number: 79-97 Disclosure Date: 7/2/79 Waiver Date: |
|--|
| Grantee Institution: Wisconsin Inventor(s): Davies-Harford |
| Invention Title: Enzymatic Assay of Aminoglycoside Antibiotics in Serum, Urine, Effluents, Animal Feeds, etc. Individual or Organization seeking licensees for invention: |
| WARF X U.S. Patent Application filed. Date: 11/13/79; S.N.: 93,758 |
| U.S. Patent granted. Date: ; No.: |
| Status of patent application if not yet granted: Application abandoned 7/27/81. If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? yes . Antimicrobial Agents and If so: Journal title: Chemotherapy, 14, 69-72 ; Date: July 1978 . |
| FIRST LICENSEE: ; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$0.0 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date:; Description: SECOND LICENSEE: ; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$ |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$ |
| Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date:; Description: |
| Please provide above information for further licenses on the back, and check here: Is invention available to other licensees? Are you still actively seeking licensees? Yes No x |
| FOREIGN PATENT STATUS Country of filing Filing date Filing No. Date Granted Patent No. |

| 79-97-PCM-79-13845 Grantee Institution: Wisconsin Inventor(s): Davies-Harford |
|--|
| Invention Title: Assay for Aminoglycosides |
| Individual or Organization seeking licensees for invention: |
| The state of the s |
| X U.S. Patent Application filed. Date: 8/25/80 ; S.N.: 181,270 . |
| U.S. Patent granted. Date: ; No.: |
| Status of patent application if not yet granted: <u>Amendment due 9/30/81</u> . If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? |
| If so: Journal title:; Date: |
| FIRST LICENSEE:; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$0.0 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date:; Description: |
| SECOND LICENSEE: ; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$ |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$. |
| Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: |
| Please provide above information for further licenses on the back, and check here: Is invention available to other licensees? Are you still actively seeking licensees? Yes x No |
| FOREIGN PATENT STATUS Country of filing Filing date Filing No. Date Granted Patent No. Australia Canada 11/13/80 364,550 Denmark France |
| Germany Great Britain |
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STATUS OF NSF-FUNDED INVENTION April 30, 1981

| NSF File Number: Disclosure Date: 12/4/79 Waiver Date: 80-19-INT-76-05793 Grantee Institution: Wisconsin Inventor(s): DeLuca-kekawa-T | anaka |
|---|-------------|
| Invention Title: 24,24-Difluoro-25-Hydroxycholecalciferol | |
| Individual or Organization seeking licensees for invention: | |
| WARF TO A CONTROL OF THE CONTROL OF | |
| X U.S. Patent Application filed. Date: 3/5/79 ; S.N.: 017,168 | |
| $\boxed{\mathbf{x}}$ U.S. Patent granted. Date: $4/1/80$; No.: $4,196,133$ | |
| Status of patent application if not yet granted: If U.S. patent has been denied or the application has been abandoned, he invention been disclosed in a publication? | as • |
| If so: Journal title:; Date:; | |
| FIRST LICENSEE: ; Date of license: | • • • |
| Total license payments to grantee before Oct. 1, 1976: \$0.0 | • |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1976 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date:; Description: | // ; |
| SECOND LICENSEE: ; Date of license: | • |
| Total license payments to grantee before Oct. 1, 1976: \$ | |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,19 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$ | 77 |
| Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: | |
| Please provide above information for further licenses on the back, and check here: . Is invention available to other licensees? Are you still actively seeking licensees? Yes x No . | |
| FOREIGN PATENT STATUS | |
| Country of filing Filing date Filing No. Date Granted Patent No. | _ |
| Australia 2/22/80 55/809/80 | |
| Canada 2/28/80 346646 | |
| Israel 10/22/79 5/8525 | |
| New Zealand 2/8/80 192826 192826 | • |
| Belgium 3/3/80 199639 3/31/80 882036 Great Britain 3/3/80 8007118 | . • |

| NSF File Number: Disclosure Date: 1/19/81 Waiver Date: 81-47-INT-76-05793 Grantee Institution: Wisconsin \ Inventor(s): DeLuca-Tanaka-Ikekawa |
|--|
| Invention Title: 25-Hydroxy-26,26,26,27,27,27-Hexafluorocholecalciferol |
| Individual or Organization seeking licensees for invention: |
| THE CONTROL OF THE CO |
| X U.S. Patent Application filed. Date: 2/4/80; S.N.: 118,149.60005. |
| X U.S. Patent granted. Date: 2/3/81; No.: 4,248,791. |
| Status of patent application if not yet granted: If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? |
| If so: Journal title: ; Date: |
| FIRST LICENSEE:; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$0.0 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date:; Description: |
| SECOND LICENSEE:; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$ |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$. |
| Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: |
| Please provide above information for further licenses on the back, and check here: Is invention available to other licensees? Are you still actively seeking licensees? Yes x No |
| FOREIGN PATENT STATUS Country of filing |
| Israel 1/19/81 61930 Belgium 2/2/81 203676 2/27/81 887,344 Erance 2/2/81 8101957 |

| NSF File Number: Disclosure Date: 1/19/81 Waiver Date: 81-48-INT-76-05793 |
|---|
| Grantee Institution: Wisconsin Inventor(s): DeLuca-Tanaka-Ikekaw Kobayashi Invention Title: Process for Preparing 24-Fluoro-25-Hydroxycholecalciferol |
| Individual or Organization seeking licensees for invention: |
| |
| WARF [x] U.S. Patent Application filed. Date: 9/22/80; S.N.: 189.513 |
| U.S. Patent granted. Date:; No.: |
| Status of patent application if not yet granted: Application has been allowed If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? |
| If so: Journal title:; Date: |
| FIRST LICENSEE: ; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$0.0 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0,0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date:; Description: SECOND LICENSEE:; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$ |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$ |
| Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: |
| Please provide above information for further licenses on the back, and check here: Is invention available to other licensees? Are you still actively seeking licensees? Yes x No |
| FOREIGN PATENT STATUS Country of filing Filing date Filing No. Date Granted Patent No. |

| NSF File Number: Disclos | sure Date: 1/19/81 Waiver Date: |
|---|--|
| Grantee Institution: Wisconsin | Inventor(s): DeLuca-Ikekawa-Tanak Morisaki-Oshida |
| Invention Title: 1_{α} -Hydroxy- 2β - | Fluorocholecalciferol |
| Individual or Organization seeking | ng licensees for invention: |
| WARF | gothand gothern and a comment of the |
| X U.S. Patent Application filed. | . Date: 4/21/80 ; S.N.: 142,552 |
| X U.S. Patent granted. Date: | 3/3/81 ; No.: 4.254.045 |
| Status of patent application if r If U.S. patent has been denied or the invention been disclosed in a | the application has been abandoned, has |
| If so: Journal title: | ; Date: |
| FIRST LICENSEE: | ; Date of license: |
| Total license payments to grantee | e before Oct. 1, 1976: \$0.0 |
| to Sep. 30, 1978: \$0.0 ; 00 10/1/79 to 9/30/80: \$0.0; 10/1/80 Has the invention been put into o | efly; if not, describe any intended |
| SECOND LICENSEE: | ; Date of license: |
| Total license payments to grantee | before Oct. 1, 1976: \$ |
| Payments from Oct. 1, 1976 to Sep to Sep. 30, 1978: \$; Oc | . 30, 1977: \$; Oct. 1,1977 t. 1, 1978 to Sep. 30, 1979: \$ |
| Has the invention been put into o If so, give date and describe bri- commercial use (use back for exter Description: | efly; if not, describe any intended |
| | for further licenses on the back, and vailable to other licensees? censees? Yes x No |
| FOREIG | n patent status |
| Country of filing Filing date | Filing No. Date Granted Patent No. |
| Australia 4/15/81 | 69562/81 |
| Israel 1/30/81 | 62027 |
| | 196123 |
| , , | 204531 8107611 |
| France $4/15/81$ | OTO/OTT |

| NSF File Number: Disclosure Date: 12/4/79Waiver Date: 80-20-INT-76-05793 |
|---|
| Grantee Institution: Wisconsin Inventor(s): DeLuca-Schnoes-Ikekawa- Tanaka-Kobayashi |
| Invention Title: 24,24-Difluoro- 1α ,25-Dihydroxycholecalciferol |
| Individual or Organization seeking licensees for invention: |
| |
| IX U.S. Patent Application filed. Date: 3/28/79; S.N.: 024,848 |
| X U.S. Patent granted. Date: 5/6/80; No.: 4.201,881 |
| Status of patent application if not yet granted: If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? . |
| If so: Journal title:; Date: |
| FIRST LICENSEE:; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$0.0 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date:; Description: |
| SECOND LICENSEE:; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$ |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$ |
| Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: |
| Please provide above information for further licenses on the back, and check here: Is invention available to other licensees? Are you still actively seeking licensees? Yes x No |
| Foreign patent Status |
| Country of filing Filing date Filing No. Date Granted Patent No. |
| Australia 2/22/80 55810/80 Canada 1/17/80 343886 |
| Israel 10/22/79 58526 |
| New Zealand 10/23/79 191900 • |
| Belgium 3/7/80 199728 3/31/80 822,143 |

| NSF File Number: Disclosure Date: 12/4/79Waiver Date: 80-20-INT-76-05793 |
|--|
| Grantee Institution: Wisconsin Inventor(s): DeLuca-Schnoes-Ikekawa- Tanaka-Kobayashi |
| Invention Title: 24,24, -Difluoro- 1α ,25-Dihydroxycholecalciferol |
| Individual or Organization seeking licensees for invention: |
| WARF |
| W.S. Patent Application filed. Date: 8/6/79; S.N.: 064,254 |
| (Division of U.S. S. N. 024, 848) [X] U.S. Patent granted. Date: 10/7/80; No.: 4,226,788 |
| Status of patent application if not yet granted: |
| If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? |
| If so: Journal title: ; Date: . |
| |
| FIRST LICENSEE: ; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$0.0 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; |
| to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; |
| 10/1/79 to $9/30/80$: $$0.0$; $10/1/80$ to $9/30/81$: $$0.0$. Has the invention been put into commercial use under this license? |
| If so, give date and describe briefly; if not, describe any intended |
| commercial use (use back for extended comments). Date:; Description: |
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| SECOND LICENSEE: ; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$ |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$. |
| Has the invention been put into commercial use under this license? |
| If so, give date and describe briefly; if not, describe any intended |
| commercial use (use back for extended comments). Date:; Description: |
| Please provide above information for further licenses on the back, and |
| check here: . Is invention available to other licensees? . |
| Are you still actively seeking licensees? Yes X No. |
| FOREIGN PATENT STATUS |
| Country of filing Filing date Filing No. Date Granted Patent No. |

| NSF File Number: 80-68 Disclosure Date: 5/21/80 Waiver Date: |
|---|
| Grantee Institution: Wisconsin Inventor(s): Hart-Blackbourn |
| Invention Title: Multiple-Frequency-Generation for NMR Spectroscopy |
| Individual or Organization seeking licensees for invention: |
| WARF |
| U.S. Patent Application filed. Date: ; S.N.: Advised NSF 7/7/81 that we would not file a patent application due to insufficient U.S. Patent granted. Date: ; No.: information. |
| Status of patent application if not yet granted: If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? |
| If so: Journal title:; Date: |
| FIRST LICENSEE:; Date of license:; |
| Total license payments to grantee before Oct. 1, 1976: \$0.0 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: SECOND LICENSEE: ; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$ |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$. |
| Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: |
| Please provide above information for further licenses on the back, and check here: Is invention available to other licensees? Are you still actively seeking licensees? Yes No X |
| FOREIGN PATENT STATUS Country of filing Poly Patent No. Patent No. |

| NSF File Number: 79-64 Disclosure Date: 3/21/79 Waiver Date: |
|--|
| Grantee Institution: Wisconsin Inventor(s): Hartwig-Perepezko |
| Invention Title: Strengthened Metallic Alloys for High Conductivity Application at Cryogenic Temperatures Individual or Organization seeking licensees for invention: |
| WARF |
| X U.S. Patent Application filed. Date: 10/12/79; S.N.: 84,199 |
| U.S. Patent granted. Date:; No.: |
| Status of patent application if not yet granted: under Appeal If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? |
| If so: Journal title: ; Date: . |
| |
| FIRST LICENSEE:; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$0.0 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: |
| SECOND LICENSEE: ; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$ |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$ |
| Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: |
| Please provide above information for further licenses on the back, and check here: . Is invention available to other licensees? Are you still actively seeking licensees? Yes x No |
| FOREIGN PATENT STATUS Country of filing Filing date Filing No. Date Granted Patent No. |

| NSF File Number: Disclosure Date: 7/16/81 Waiver Date: 81-80-DMR-78-25754 |
|---|
| Grantee Institution: Wisconsin Inventor(s): Lagally-Martin |
| Invention Title: Scanning Low-Energy Electron Diffractometer with a Field Emission Source Individual or Organization seeking licensees for invention: |
| WARF |
| U.S. Patent Application filed. Date: ; S.N.: Invention being evaluated for potential patentability. U.S. Patent granted. Date: ; No.: |
| Status of patent application if not yet granted: If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? |
| If so: Journal title: ; Date: |
| FIRST LICENSEE: ; Date of license: . |
| Total license payments to grantee before Oct. 1, 1976: \$0.0 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; |
| 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? |
| If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date:; Description: |
| SECOND LICENSEE: ; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$ |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$ |
| Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: |
| Please provide above information for further licenses on the back, and check here: Is invention available to other licensees? Are you still actively seeking licensees? Yes No . |
| FOREIGN PATENT STATUS Country of filing Filing date Filing No. Date Granted Patent No. |

| 80-90-ENG-72-04229 Grantee Institution: Wisconsin Inventor(s): Langer-Pate |
|--|
| Invention Title: Electrogenerative Reduction of Nitrogen Oxides |
| Individual or Organization seeking licensees for invention: |
| Lander of the warr to be a first that the second of the se |
| XU.S. Patent Application filed. Date: 5/23/80: S.N.: 152,728 |
| U.S. Patent granted. Date: ; No.: |
| Status of patent application if not yet granted: under Amendment If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? |
| If so: Journal title:; Date: |
| FIRST LICENSEE:; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$0.0 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; |
| 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: |
| Description: |
| SECOND LICENSEE: ; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$ |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$. |
| Has the invention been put into commercial use under this license? |
| If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date:; Description: |
| Please provide above information for further licenses on the back, and check here: Is invention available to other licensees? Are you still actively seeking licensees? Yes x No PORTON PAGENT STATES. |
| FOREIGN PATENT STATUS |

OMB NO. 99-R0308 APPROVAL EXPIRES: April 30, 1981 No change from 1980

NSF File Number: 74-52 Disclosure Date: 2/22/74 Waiver Date: Grantee Institution: Wisconsin Inventor(s): Mayhugh-Fullerton Invention Title: Sensitized Thermoluminiscent Phosphor and Method Individual or Organization seeking licensees for invention: XU.S. Patent Application filed. Date: 11/13/74; S.N.: 523 322 U.S. Patent granted. Date: 6/8/76; No.: 3.962.586 Status of patent application if not yet granted: If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? If so: Journal title: ; Date: _____. ; Date of license: FIRST LICENSEE: Total license payments to grantee before Oct. 1, 1976: \$0.0 Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: SECOND LICENSEE: ______; Date of license: ______. Total license payments to grantee before Oct. 1, 1976: \$_____ Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$... Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: Please provide above information for further licenses on the back, and check here: . Is invention available to other licensees? ____. Are you still actively seeking licensees? Yes x No FOREIGN PATENT STATUS

Country of filing Filing date Filing No. Date Granted Patent No.

| NSF File Number: 78-22 Disclosure Date: 1/3/78 Waiver Date: |
|---|
| Grantee Institution: Wisconsin Inventor(s): Mistretta |
| Invention Title: Time Dependent Subtraction Imaging - Mask Mode |
| Individual or Organization seeking licensees for invention: |
| |
| X U.S. Patent Application filed. Date: 11/15/78 S.N.: 960.830 |
| (c-i-p of S. N. 906,686 - abandoned 6/15/79) [x] U.S. Patent granted. Date: 5/20/80; No.: 4.204,225 |
| Status of patent application if not yet granted: |
| If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? |
| If so: Journal title: ; Date: . |
| N. V. Philips Gloeilampen- |
| FIRST LICENSEE: fabrienken, Netherlands ; Date of license: 1/1/79 Cand |
| Entered into new Agreement with PHILIPS - 7/1/81. Total license payments to grantee before Oct. 1, 1976: \$0.0'/1/81. |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$10,000 ; 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? ves. If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: July 1981; Description: |
| SECOND LICENSEE:; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$ |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$ |
| Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: |
| Please provide above information for further licenses on the back, and check here: . Is invention available to other licensees? Are you still actively seeking licensees? Yes x No |
| Are you still actively seeking licensees? Yes x No. |
| FOREIGN PATENT STATUS |
| Country of filing Filing date Filing No. Date Granted Patent No. Canada 5/16/79 327771 |
| Canada 5/16/79 327771 Holland 5/15/79 79.03807 |
| Japan 5/16/79 60249/79 |
| Great Britain 5/11/79 7916534 • |
| W. Germany 5/15/79 P29194250 |

7913277

France

| NSr File Number: 78-29 Disclosure Date: 1/3/78 Waiver Date: |
|---|
| Grantee Institution: Wisconsin Inventor(s): Mistretta-Kruger-Houk |
| Invention Title: Time Interval Differencing Without Contrast Agent |
| Individual or Organization seeking licensees for invention: |
| WARF [x] U.S. Patent Application filed. Date: 5/16/78; S.N.: 906.631. |
| XU.S. Patent granted. Date: 5/20/80; No.: 4,204,226 |
| Status of patent application if not yet granted: If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? |
| If so: Journal title: ; Date: |
| (See NSF File Number 78-22; FIRST LICENSEE: licensed to PHILIPS under ; Date of license: same Agreement) Total license payments to grantee before Oct. 1, 1976: \$0.0 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$(See NSF File 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0 . Number 78-22 Has the invention been put into commercial use under this license? yes. If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: July 1981; Description: SECOND LICENSEE: ; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$ |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$ |
| Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: |
| Please provide above information for further licenses on the back, and check here: Is invention available to other licensees? Are you still actively seeking licensees? Yes X NO |
| FOREIGN PATENT STATUS Country of filing date Filing No. Date Granted Patent No. Canada 5/16/79 327772 |

| NSF File Number: 79-50 Disclosure Date: 2/19/79 Waiver Date: |
|--|
| Grantee Institution: Wisconsin Inventor(s): Mistretta-Kruger-Riederer |
| Invention Title: Digital Fluoroscopic Three-Beam K-Edge Imaging of Iodine on a Point by Point Basis Using Differences Individual or Organization seeking licensees for invention: |
| WARF |
| U.S. Patent Application filed. Date: ; S.N.: |
| No patent application filed to date; awaiting more data from inventors. U.S. Patent granted. Date: ; No.: |
| Status of patent application if not yet granted: |
| If U.S. patent application if not yet granted. If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? |
| If one Tournal title |
| If so: Journal title: ; Date: |
| FIRST LICENSEE: ; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$0.0 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date:; Description: |
| SECOND LICENSEE: ; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$ |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$. |
| Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Conscription: |
| Please provide above information for further licenses on the back, and check here: Is invention available to other licensees? Are you still actively seeking licensees? Yes No . |
| FOREIGN PATENT STATUS Country of filing Filing date Filing No. Date Granted Patent No. |

| not rite number: 77-70 Disclosure bate: 3/20//9 waiver bate: |
|--|
| Grantee Institution: Wisconsin Inventor(s): Rasmussen-Loper-Perepezko |
| Invention Title: Emulsification of Metals in Glass and Molten Salts |
| Individual or Organization seeking licensees for invention: |
| WARF |
| x U.S. Patent Application filed. Date: 9/26/80; S.N.: 190,948 |
| U.S. Patent granted. Date: ; No.: |
| Status of patent application if not yet granted: Awaiting 1st Office Action. If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? |
| If so: Journal title: ; Date: |
| FIRST LICENSEE: ; Date of license: . |
| Total license payments to grantee before Oct. 1, 1976: \$0.0 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date:; Description: |
| SECOND LICENSEE: ; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$ |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$ |
| Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: |
| Please provide above information for further licenses on the back, and check here: Is invention available to other licensees? Are you still actively seeking licensees? Yes x No |
| FOREIGN PATENT STATUS Country of filing Filing date Filing No. Date Granted Patent No. |

OMB NO. 99-R0308 APPROVAL EXPIRES: April 30, 1981

STATUS OF NSF-FUNDED INVENTION

Same as 1980 NSF File Number: 79-69 Disclosure Date: 3/26/79 Waiver Date:

| Grantee Institution: Wisconsin Inventor(s): Rasmussen-Loper-Perepezko |
|---|
| Invention Title: Control of Solidification Microstructure by the Use of Emulsified Metal Droplets |
| Individual or Organization seeking licensees for invention: |
| THE REPORT OF THE WARF AND THE RESERVE OF THE SECOND PROPERTY OF THE PROPERTY |
| U.S. Patent Application filed. Date: ; S.N.: |
| Application drafted; awaiting more data from inventors. U.S. Patent granted. Date: ; No.: |
| Status of patent application if not yet granted: |
| If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? |
| If so: Journal title:; Date: |
| FIRST LICENSEE: ; Date of license: . |
| Total license payments to grantee before Oct. 1, 1976: \$0.0 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date:; Description: |
| SECOND LICENSEE:; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$ |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$. |
| Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: |
| Please provide above information for further licenses on the back, and check here: Is invention available to other licensees? Are you still actively seeking licensees? Yes x No |
| FOREIGN PATENT STATUS |

Country of filing

Filing date

Filing No. Date Granted

Patent No.

| NSr File Number: /9-/1 Disclosure Date: 3/26/79 Walver Date: |
|--|
| Grantee Institution: Wisconsin Inventor(s): Rasmussen-Loper- |
| Perepezko-Anderson Invention Title: Use of Emulsified Metal Droplets as Seeds for the Productio of Nonequilibrium Phases Individual or Organization seeking licensees for invention: |
| WARF |
| U.S. Patent Application filed. Date: ; S.N.: No application has been filed to date; awaiting more data from inventors. U.S. Patent granted. Date: ; No.: |
| Status of patent application if not yet granted: If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? |
| If so: Journal title: ; Date: |
| FIRST LICENSEE:; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$0.0 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date:; Description: |
| SECOND LICENSEE:; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$ |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$ |
| Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: |
| Please provide above information for further licenses on the back, and check here: . Is invention available to other licensees? Are you still actively seeking licensees? Yes No |
| FOREIGN PATENT STATUS Country of filing Filing date Filing No. Date Granted Patent No. |

| NSF File Number: /8-83 Disclosure Date: 8/4/78 Waiver Date: |
|--|
| Grantee Institution: Wisconsin Inventor(s): Scott |
| Invention Title: Fluxon Oscillators |
| Individual or Organization seeking licensees for invention: WARF |
| X U.S. Patent Application filed. Date: 7/12/78; S.N.: 923,955 |
| X U.S. Patent granted. Date: 1/1/80; No.: 4.181,902 |
| Status of patent application if not yet granted: If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? . |
| If so: Journal title: ; Date: |
| FIRST LICENSEE: ; Date of license: . |
| Total license payments to grantee before Oct. 1, 1976: \$0.0 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; |
| 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: |
| SECOND LICENSEE: ; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$ |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$ |
| Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: |
| Please provide above information for further licenses on the back, and check here: Is invention available to other licensees? Are you still actively seeking licensees? Yes X No |
| FOREIGN PATENT STATUS Country of filing Filing date Filing No. Date Granted Patent No. |

OMB NO. 99-R0308 APPROVAL EXPIRES: April 30, 1981

STATUS OF NSF-FUNDED INVENTION

Same as 1980

| The ranger. 70 // Disclosure page: 2/13//2 warver page: |
|---|
| Grantee Institution: Wisconsin Inventor(s): Skoog-Schmitz-Hecht-Frye |
| Invention Title: Cytokinin Antagonists and Method of Production and Use |
| Individual or Organization seeking licensees for invention: |
| WARF |
| X U.S. Patent Application filed. Date: 4/24/74; S.N.: 463,739 |
| X U.S. Patent granted. Date: 10/26/76; No.: 3,988,338 |
| Status of patent application if not yet granted: If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? |
| If so: Journal title: ; Date: |
| FIRST LICENSEE: <u>Burroughs-Wellcome</u> ; Date of license: <u>4/1/76</u> . License terminated 4/1/79 Total license payments to grantee before Oct. 1, 1976: \$1.000 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date:; Description: |
| SECOND LICENSEE: ; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$ |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$ |
| Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: |
| Please provide above information for further licenses on the back, and check here: Is invention available to other licensees? Are you still actively seeking licensees? Yes X No |
| FOREIGN PATENT STATUS Country of filing Filing date Filing No. Date Granted Patent No. |

| NSr File Number: 79-68 Disclosure Date: 3/26/79 Waiver Date: |
|---|
| Grantee Institution: Wisconsin Inventor(s): Smith-Perepezko-Rasmussen-Loper |
| Invention Title: The Compaction of Amorphous Droplets Produced by Emulsification |
| Individual or Organization seeking licensees for invention: |
| WARF |
| X U.S. Patent Application filed. Date: 11/13/78 S.N.: 960,100 |
| X U.S. Patent granted. Date: 8/4/81; No.: 4,282,034 |
| Status of patent application if not yet granted: If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? |
| If so: Journal title:; Date: |
| FIRST LICENSEE:; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$0.0 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. |
| Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: ; Description: |
| SECOND LICENSEE:; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$ |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$ |
| Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: |
| Please provide above information for further licenses on the back, and check here: . Is invention available to other licensees? Are you still actively seeking licensees? Yes x No |
| FOREIGN PATENT STATUS Country of filing Filing date Filing No. Date Granted Patent No. |
| Canada 11/13/79 339,652 |

OMB NO. 99-R0308 APPROVAL EXPIRES: April 30, 1981

STATUS OF NSF-FUNDED INVENTION

Same as 1980 NSF File Number: 75-121 Disclosure Date: 3/18/75 Waiver Date: Grantee Institution: Wisconsin Inventor(s): Trost-Tamaru Invention Title: Oxidative Decarboxylation of Carboxylic Acids Individual or Organization seeking licensees for invention: II U.S. Patent Application filed. Date: 5/19/75; S.N.: 578,533 X U.S. Patent granted. Date: 2/8/77; No.: 4.007,211 Status of patent application if not yet granted: If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? If so: Journal title: ; Date: _____. FIRST LICENSEE: ; Date of license: _____. Total license payments to grantee before Oct. 1, 1976: \$0.0 Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: ; Date of license: SECOND LICENSEE: Total license payments to grantee before Oct. 1, 1976: \$_____. Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,197 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$.; Oct. 1,1977 Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: Please provide above information for further licenses on the back, and check here: . Is invention available to other licensees? . . Are you still actively seeking licensees? Yes x No

FOREIGN PATENT STATUS

Country of filing Filing date Filing No. Date Granted Patent No.

OMB NO. 99-RUJUB APPROVAL EXPIRES: April 30, 1981

STATUS OF NSF-FUNDED INVENTION

Same as 1980

| NSF File Number: 76-92 Disclosure Date: 2/6/76 Waiver Date: |
|--|
| Grantee Institution: Wisconsin Inventor(s): Trost-Verhoeven |
| Invention Title: Catalytic Allylic Alkylation |
| Individual or Organization seeking licensees for invention: |
| WARF \overline{X} U.S. Patent Application filed. Date: $1/5/76$; S.N.: 646.640 . |
| X U.S. Patent granted. Date: 9/27/77; No.: 4.051,157 |
| Status of patent application if not yet granted: If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? |
| If so: Journal title: ; Date: . |
| FIRST LICENSEE: ; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$0.0 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: |
| SECOND LICENSEE: ; Date of license: |
| Fotal license payments to grantee before Oct. 1, 1976: \$ |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$ |
| Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Conscription: |
| Please provide above information for further licenses on the back, and check here: Is invention available to other licensees? Are you still actively seeking licensees? Yes X NO |
| FOREIGN PATENT STATUS |
| Country of filing Filing date Filing No. Date Granted Patent No. |

| NSF File Number: Disclosure Date: 6/23/80 Waiver Date: 80-75-CHE-76-15113 |
|---|
| Grantee Institution: Wisconsin Inventor(s): Trost-Vincent |
| Invention Title: Ring Expansion and Chain Extension Process and Reagents |
| Individual or Organization seeking licensees for invention: |
| X U.S. Patent Application filed. Date: 7/3/80; S.N.: 165,768 |
| U.S. Patent granted. Date:; No.: |
| Status of patent application if not yet granted: under Amendment If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? |
| If so: Journal title:; Date: |
| FIRST LICENSEE:; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$0.0 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; |
| 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended |
| commercial use (use back for extended comments). Date:; Description: |
| SECOND LICENSEE:; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$ |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$ |
| Has the invention been put into commercial use under this license? |
| If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date:; Description: |
| Please provide above information for further licenses on the back, and check here: Is invention available to other licensees? Are you still actively seeking licensees? Yes x No |
| FOREIGN PATENT STATUS |

Country of filing Filing date Filing No. Date Granted Patent No.

| NSF File Number: 76-39 Disclosure Date: 9/30/75 Waiver Date: |
|---|
| Grantee Institution: Wisconsin Inventor(s): Walters |
| Invention Title: Mestastable Argon Stabilized Arc Device |
| Individual or Organization seeking licensees for invention: |
| WARF X U.S. Patent Application filed. Date: $9/17/75$; S.N.: $614,194$. |
| X U.S. Patent granted. Date: 11/29/77 No.: 4.060.708 |
| Status of patent application if not yet granted: If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? |
| If so: Journal title:; Date: |
| FIRST LICENSEE:; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$0.0 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date:; Description: |
| SECOND LICENSEE:; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$ |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$ |
| Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: |
| Please provide above information for further licenses on the back, and |
| check here: . Is invention available to other licensees? Are you still actively seeking licensees? Yes x NO . |

OMB NO. 99-R0308 APPROVAL EXPIRES: April 30, 1981

STATUS OF NSF-FUNDED INVENTION

No change from 1980

NSF File Number: 74-46 Disclosure Date: 2/5/74 Waiver Date: Grantee Institution: Wisconsin Inventor(s): Walters-Bernier Invention Title: Spark Source with Electronic Switching Tubes ng magalaning as yokkana dipikan Individual or Organization seeking licensees for invention: The second of the second of the second of the second of the second second second second of the secon X U.S. Patent Application filed. Date: 4/16/75; S.N.: 568,577 X U.S. Patent granted. Date: 8/3/76 : No.: 3,973,167 Status of patent application if not yet granted: If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? If so: Journal title: ______; Date: ______; FIRST LICENSEE: ; Date of license: ... Total license payments to grantee before Oct. 1, 1976: \$0.0 Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. (See Has the invention been put into commercial use under this license? over). If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: ; Date of license: SECOND LICENSEE: Total license payments to grantee before Oct. 1, 1976: \$_____ Payments from Oct. 1, 1976 to Sep. 30, 1977: \$_____ _; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$ Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: Please provide above information for further licenses on the back, and check here: . Is invention available to other licensees? ____. Are you still actively seeking licensees? Yes x No FOREIGN PATENT STATUS Country of filing Filing date Filing No. Date Granted Patent No. Brazil 2/20/75 1380/75 - abandoned 12/2/77 Canada 2/21/75 220,578 9/26/78 1039346 W. Germany 2/8/75 P2505392.3 2/20/75 2/1/78 1487816 Great Britain 7155175 Japan 2/20/75 21400/75 2/20/78 1/2/79 Canada (Div.) 297, 261 1045675

| NSF File Number: 76-132 Disclosure Date: 5/3/76 Walver Date: |
|--|
| Grantee Institution: Wisconsin Inventor(s): Walters-Coleman |
| Invention Title: Spark Source with Regulation of Spark Magnitude by Contro of Spark Timing Individual or Organization seeking licensees for invention: |
| NARF |
| X U.S. Patent Application filed. Date: 3/1776; S.N.: 662,891 |
| X U.S. Patent granted. Date: 10/25/77; No.: 4.055,783 |
| Status of patent application if not yet granted: If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? |
| If so: Journal title:; Date: |
| FIRST LICENSEE: |
| Total license payments to grantee before Oct. 1, 1976: \$0.0 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: |
| SECOND LICENSEE:; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$ |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$ |
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| Please provide above information for further licenses on the back, and check here: . Is invention available to other licensees? Are you still actively seeking licensees? Yes x No |
| Country of filing Filing date Filing No. Date Granted Patent No. Canada 9/9/77 286,403 11/18/80 1,089,926 |

APPROVAL EXPIRES: April 30, 1981

STATUS OF NSF-FUNDED INVENTION

No change from 1980

| NSr File Number: 76-122 Disclosure Date: 3/15/76 Walver Date: |
|---|
| Grantee Institution: Wisconsin Inventor(s): West-Beyer-Komatsu |
| Invention Title: Quinocyclopropene Derivatives |
| Individual or Organization seeking licensees for invention: |
| WARF |
| X U.S. Patent Application filed. Date: 3/15/77: S.N.: 777.836 |
| X U.S. Patent granted. Date: 1/9/79; No.: 4,133,821 |
| Status of patent application if not yet granted: If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? |
| If so: Journal title:; Date: |
| FIRST LICENSEE:; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$0.0 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date:; Description: |
| SECOND LICENSEE: ; Date of license: |
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| FOREIGN PATENT STATUS Country of filing Filing date Filing No. Date Granted Patent No. |

APPROVAL EXPIRES: April 30, 1981

STATUS OF NSF-FUNDED INVENTION

No change from 1980

NSF File Number: 76-140 Disclosure Date: 3/25/76 Waiver Date: Grantee Institution: Wisconsin Inventor(s): J. C. Wright Invention Title: Chemical Analysis of Ions Incorporated in Lattices Using Coherent Excitation Sources Individual or Organization seeking licensees for invention: | U.S. Patent Application filed. Date: 2/11/76; S.N.: 657.252 [x] U.S. Patent granted. Date: 2/8/77; No.: 4.007,009 Status of patent application if not yet granted: If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? If so: Journal title: _____; Date: _____. FIRST LICENSEE: ; Date of license: _____. Total license payments to grantee before Oct. 1, 1976: \$0.0 Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; 10/1/79 to 9/30/80: \$0. 0; 10/1/80 to 9/30/81: \$0. 0. Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: ; Date of license: _____ SECOND LICENSEE: Total license payments to grantee before Oct. 1, 1976: \$ Payments from Oct. 1, 1976 to Sep. 30, 1977: \$; Oct. 1,1977 to Sep. 30, 1978: \$; Oct. 1, 1978 to Sep. 30, 1979: \$... ; Oct. 1,1977 Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date: Description: Please provide above information for further licenses on the back, and check here: . Is invention available to other licensees? Are you still actively seeking licensees? Yes x No FOREIGN PATENT STATUS Country of filing Filing date Filing No. Date Granted Patent No. Canada 2/1/77

| NSF File Number: 80-45 Disclosure Date: 2/26/80 Waiver Date: |
|---|
| Grantee Institution: Wisconsin Inventor(s): Zeikus & Ben-Bassat & Lamed & Ng Invention Title: Ethanol Production from Cellulosic Biomass by Co-cultures of Clostridium Thermocellum and a New Isolate Clostridium Thermohydrosulfuricum Individual or Organization seeking licensees for invention: Strain 39E |
| |
| x U.S. Patent Application filed. Date: 1/14/81; S.N.: 225.093 |
| U.S. Patent granted. Date:, No.: |
| Status of patent application if not yet granted: <u>Awaiting 1st Office Action</u> If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? |
| If so: Journal title: ; Date: . |
| |
| FIRST LICENSEE:; Date of license: |
| Total license payments to grantee before Oct. 1, 1976: \$0.0 |
| Payments from Oct. 1, 1976 to Sep. 30, 1977: \$0.0 ; Oct. 1, 1977 to Sep. 30, 1978: \$0.0 ; Oct. 1, 1978 to Sep. 30, 1979: \$0.0 ; 10/1/79 to 9/30/80: \$0.0; 10/1/80 to 9/30/81: \$0.0. Has the invention been put into commercial use under this license? If so, give date and describe briefly; if not, describe any intended commercial use (use back for extended comments). Date:; Description: |
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| FOREIGN PATENT STATUS Country of filing Filing data Filing No. Date Granted Patent No. |

| 81-54-DEB-78-24071 |
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| Grantee Institution: Wisconsin Inventor(s): Zeikus-Lynd |
| Invention Title: Bioconversion of Organic Pyrolysis Products to Chemical Feedstocks by Novel Technology that Employs Acidogenic Bacteria Individual or Organization seeking licensees for invention: |
| WARF CONTROL OF THE C |
| U.S. Patent Application filed. Date: 7/23/81; S.N.: 286,246. |
| U.S. Patent granted. Date: ; No.: |
| Status of patent application if not yet granted: Awaiting 1st Office Action If U.S. patent has been denied or the application has been abandoned, has the invention been disclosed in a publication? |
| If so: Journal title:; Date: |
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