



*File Copy*

**WISCONSIN  
ALUMNI  
RESEARCH  
FOUNDATION**

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September 8, 1980

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

Dear Ms. Pettitt:

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, 1979 through June 30, 1980, which represents the fiscal year of the Wisconsin Alumni Research Foundation, the designee of the University of Wisconsin, under the Agreement.

In our letter of August 16, 1978 to Mr. Frank L. Huband we presented some commentary on this type of annual report and refer you to that letter for our comments which we believe are still appropriate.

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.

STATUS OF NSF-FUNDED INVENTION

No change from 1979

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:

WARF

U.S. Patent Application filed. Date: 5/20/75 ; S.N.: 579,268

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: \_\_\_\_\_ ; Date: \_\_\_\_\_

\*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

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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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.

STATUS OF NSF-FUNDED INVENTION

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:

WARF

U.S. Patent Application filed. Date: 10/2/78; S.N.: 947,428

U.S. Patent granted. Date: \_\_\_\_\_; No.: \_\_\_\_\_

Status of patent application if not yet granted: Application 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: \$ \_\_\_\_\_

Payments from Oct. 1, 1976 to Sep. 30, 1977: \$ \_\_\_\_\_; Oct. 1, 1977  
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Description:

SECOND LICENSEE: \_\_\_\_\_; Date of license: \_\_\_\_\_

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Description:

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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

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:

WARF

U.S. Patent Application filed. Date: 10/3/77 ; S.N.: 839,034 .

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: \_\_\_\_\_ .

FIRST 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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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

NSF File Number: 80-73-MCS77-02156  
Disclosure Date: 6/17/80 Waiver Date:  
Grantee Institution: Wisconsin Inventor(s): Davida-Wells-Kam

Invention Title: A Database Encryption System with Subkeys

Individual or Organization seeking licensees for invention:

WARF

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: 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: \$ \_\_\_\_\_

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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

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

U.S. Patent Application filed. Date: 11/13/79; S.N.: 93,758.

U.S. Patent granted. Date: \_\_\_\_\_; No.: \_\_\_\_\_.

1st Office Action -

Status of patent application if not yet granted: Amendment due 10/24/80  
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: \$ \_\_\_\_\_.

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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

NSF File Number: 80-19-INT-76-05793  
Disclosure Date: 12/4/79 Waiver Date:  
Grantee Institution: Wisconsin Inventor(s): DeLuca-Ikekawa-Tanaka-Kobayashi  
Invention Title: 24,24-Difluoro-25-Hydroxycholecalciferol

Individual or Organization seeking licensees for invention:

WARF

U.S. Patent Application filed. Date: 3/5/79 ; S.N.: 017,168

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: \_\_\_\_\_ ; Date: \_\_\_\_\_

FIRST LICENSEE: \_\_\_\_\_ ; Date of license: \_\_\_\_\_

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

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Description: \_\_\_\_\_

SECOND LICENSEE: \_\_\_\_\_ ; Date of license: \_\_\_\_\_

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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.
Australia	2/22/80	55809/80		
Canada	2/28/80	346646		
Israel	10/22/79	5/8525		
New Zealand	2/8/80	192826		
Belgium	3/3/80	199639		
Great Britain	3/3/80	8007118		

(continued next page)

Ireland	3/3/80	420/80
France	3/4/80	8004852
Italy	3/3/80	20326A/80
Denmark	10/15/79	
W. Germany	10/15/79	
Holland	10/15/79	
Japan	10/15/79	
Switzerland	10/15/79	
Sweden	10/15/79	



STATUS OF NSF-FUNDED INVENTION

NSF File Number: 80-20-INT-76-05793 Disclosure Date: 12/4/79 Waiver Date:  
Grantee Institution: Wisconsin Inventor(s): DeLuca-Schnoes-Ikekawa-  
Tanaka-Kobayashi  
Invention Title: 24,24-Difluoro-1 $\alpha$ ,25-Dihydroxycholecalciferol

Individual or Organization seeking licensees for invention:

WARF

U.S. Patent Application filed. Date: 3/28/79 ; S.N.: 024,848 .

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: \$ \_\_\_\_\_ .

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Description: \_\_\_\_\_

SECOND LICENSEE: \_\_\_\_\_ ; Date of license: \_\_\_\_\_ .

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Description: \_\_\_\_\_

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Are you still actively seeking licensees? Yes  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		
Great Britain	3/13/80	8008488		

(continued next page)

Ireland	3/26/80	619/80
France	3/17/80	8005935
Italy	3/11/80	20508A/80
Denmark	10/15/79	
W. Germany	10/15/79	
Holland	10/15/79	
Japan	10/15/79	
Switzerland	10/15/79	
Sweden	10/15/79	

STATUS OF NSF-FUNDED INVENTION

NSF File Number: 80-20-INT-76-05793  
Disclosure Date: 12/4/79 Waiver Date:  
Grantee Institution: Wisconsin Inventor(s): DeLuca-Schnoes-Ikekawa-Tanaka-Kobayashi  
Invention Title: 24,24-Difluoro-1 $\alpha$ ,25-Dihydroxycholecalciferol

Individual or Organization seeking licensees for invention:

WARF

U.S. Patent Application filed. Date: 8/6/79 ; S.N.: 064,254  
(Division of U.S. S.N. 024,848)  
 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: \_\_\_\_\_

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Description:

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Are you still actively seeking licensees? Yes  No \_\_\_\_\_

FOREIGN PATENT STATUS

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

STATUS OF NSF-FUNDED INVENTION

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:

WARE

U.S. Patent Application filed. Date: \_\_\_\_\_; S.N.: \_\_\_\_\_.

No patent application filed to date pending new research data.

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: \$ \_\_\_\_\_.

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Are you still actively seeking licensees? Yes \_\_\_\_\_ No \_\_\_\_\_.

FOREIGN PATENT STATUS

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

STATUS OF NSF-FUNDED INVENTION

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:

WARE

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 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: \_\_\_\_\_

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Are you still actively seeking licensees? Yes  No \_\_\_\_\_

FOREIGN PATENT STATUS

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

STATUS OF NSF-FUNDED INVENTION

NSF File Number: 80-90-ENG-72-04229 Disclosure Date: 7/22/80 Waiver Date:  
Grantee Institution: Wisconsin Inventor(s): Langer-Pate

Invention Title: Electrogenative Reduction of Nitrogen Oxides

Individual or Organization seeking licensees for invention:

WARF

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: 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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FOREIGN PATENT STATUS

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

STATUS OF NSF-FUNDED INVENTION

No change from 1979

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

U.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: \_\_\_\_\_

FIRST 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:

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.

STATUS OF NSF-FUNDED INVENTION

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:

WARF

- 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)
- 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: \_\_\_\_\_

FIRST LICENSEE: N.V. Philips Gloeilampen-; Date of license: 1/1/79.  
fabrieken, Netherlands

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: \$ 10,000

Has the invention been put into commercial use under this license? no.  
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

Above License is exclusive for 3 years from date of 1st commercial sale or 8 years

FOREIGN PATENT STATUS from date of License.

Country of filing	Filing date	Filing No.	Date Granted	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		



STATUS OF NSF-FUNDED INVENTION

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

U.S. Patent Application filed. Date: 5/16/78 ; S.N.: 906,631 .

U.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: \_\_\_\_\_ .

FIRST LICENSEE: (See NSF File Number 78-22; Date of license: \_\_\_\_\_ .

licensed to N. V. Philips under same Agreement)  
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:

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 \_\_\_\_\_ .

Above License is exclusive for 3 years from date of 1st commercial sale or 8 years

FOREIGN PATENT STATUS from date of License.

Country of filing	Filing date	Filing No.	Date Granted	Patent No.
Canada	5/16/79	327772		

STATUS OF NSF-FUNDED INVENTION

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 has been filed to date.

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: \$ \_\_\_\_\_.

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:

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.

STATUS OF NSF-FUNDED INVENTION

NSF 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:

WARE

U.S. Patent Application filed. Date: \_\_\_\_\_; S.N.: \_\_\_\_\_.

Application ready for filing - awaiting signature of all 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: \$ \_\_\_\_\_.

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:

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.

STATUS OF NSF-FUNDED INVENTION

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: \_\_\_\_\_.

FIRST 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:

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.

STATUS OF NSF-FUNDED INVENTION

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 Metal Droplets as Seeds for the Production  
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: \$ \_\_\_\_\_

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:

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.

STATUS OF NSF-FUNDED INVENTION

NSF File Number: \_\_\_\_\_ Disclosure Date: 1/10/80 Waiver Date: \_\_\_\_\_

Grantee Institution: Wisconsin Inventor(s): Ray-Schork

Invention Title: Tensiometer for Surface Tension Measurements of Liquids  
Under Static for Flow Conditions

Individual or Organization seeking licensees for invention: \_\_\_\_\_

WARF

U.S. Patent Application filed. Date: \_\_\_\_\_; S.N.: \_\_\_\_\_

Advised NSF on 1/10/80 that patent application would not be filed.

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: \$ \_\_\_\_\_

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: \_\_\_\_\_

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.

STATUS OF NSF-FUNDED INVENTION

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:

WARF

U.S. Patent Application filed. Date: 7/12/78 ; S.N.: 923,955 .

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: \$ \_\_\_\_\_ .

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: \_\_\_\_\_

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.

STATUS OF NSF-FUNDED INVENTION

NSF File Number: 75-99 Disclosure Date: 2/13/75 Waiver Date: Same as 1979

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

U.S. Patent Application filed. Date: 4/24/74 ; S.N.: 463,739

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: \$ \_\_\_\_\_ ; 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? no

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.



STATUS OF NSF-FUNDED INVENTION

NSF File Number: 79-68 Disclosure Date: 3/26/79 Waiver Date:

Grantee Institution: Wisconsin Inventor(s): Smith-Perèpezko-Rasmussen-Loper

Invention Title: The Compaction of Amorphous Droplets Produced by Emulsification

Individual or Organization seeking licensees for invention:

WARF

U.S. Patent Application filed. Date: 11/13/78; S.N.: 960,100

U.S. Patent granted. Date: \_\_\_\_\_; No.: \_\_\_\_\_

Status of patent application if not yet granted: In condition for allowance.  
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: \$ \_\_\_\_\_

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: \_\_\_\_\_

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.

STATUS OF NSF-FUNDED INVENTION

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:

WARF

U.S. Patent Application filed. Date: 5/19/75 ; S.N.: 578,533

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: \$ \_\_\_\_\_

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:

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.

STATUS OF NSF-FUNDED INVENTION

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

U.S. Patent Application filed. Date: 1/5/76 ; S.N.: 646,640

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: \$ \_\_\_\_\_

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:

SECOND LICENSEE: \_\_\_\_\_ ; Date of license: \_\_\_\_\_

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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.

STATUS OF NSF-FUNDED INVENTION

NSF File Number: 80-75-CHE-76-15113      Disclosure Date: 6/23/80      Waiver Date:  
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

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: \_\_\_\_\_ .  
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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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.

STATUS OF NSF-FUNDED INVENTION

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

U.S. Patent Application filed. Date: 9/17/75 ; S.N.: 614,194

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: \$ \_\_\_\_\_

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: \_\_\_\_\_

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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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.
Canada	9/16/76	261,337	5/6/80	1077125
Germany	9/16/76	P2641618.2		
Great Britain	9/10/76	37633/76	1/30/80	1556741
Japan	9/17/76	111657/76		

STATUS OF NSF-FUNDED INVENTION

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

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

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: \$ \_\_\_\_\_

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

(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:

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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commercial use (use back for extended comments). Date: \_\_\_\_\_ ;  
Description:

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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		
Great Britain	2/20/75	7155175	2/1/78	1487816
Japan	2/20/75	21400/75		
Canada (Div.)	2/20/78	297,261	1/2/79	1045675

STATUS OF NSF-FUNDED INVENTION

NSF File Number: 76-132 Disclosure Date: 5/3/76 Waiver Date: No change from 1979

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

Invention Title: Spark Source with Regulation of Spark Magnitude by Control of Spark Timing

Individual or Organization seeking licensees for invention:

WARF

U.S. Patent Application filed. Date: 3/1/76 ; S.N.: 662,891

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: \$ \_\_\_\_\_

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Description: \_\_\_\_\_

SECOND LICENSEE: \_\_\_\_\_; Date of license: \_\_\_\_\_

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Description: \_\_\_\_\_

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Are you still actively seeking licensees? Yes  NO \_\_\_\_\_

FOREIGN PATENT STATUS

Country of filing	Filing date	Filing No.	Date Granted	Patent No.
Canada	9/9/77	286,403		

STATUS OF NSF-FUNDED INVENTION

NSF File Number: 76-122 Disclosure Date: 3/15/76 Waiver Date: No change from 1979

Grantee Institution: Wisconsin Inventor(s): West-Beyer-Komatsu

Invention Title: Quinocyclopropene Derivatives

Individual or Organization seeking licensees for invention:

WARF

U.S. Patent Application filed. Date: 3/15/77 ; S.N.: 777,836

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: \$ \_\_\_\_\_

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Description: \_\_\_\_\_

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Description: \_\_\_\_\_

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Are you still actively seeking licensees? Yes  No \_\_\_\_\_

FOREIGN PATENT STATUS

Country of filing	Filing date	Filing No.	Date Granted	Patent No.
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STATUS OF NSF-FUNDED INVENTION

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:

WARF

U.S. Patent Application filed. Date: 2/11/76 ; S.N.: 657,252

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: \$ \_\_\_\_\_

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Description: \_\_\_\_\_

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Description: \_\_\_\_\_

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FOREIGN PATENT STATUS

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

STATUS OF NSF-FUNDED INVENTION

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

U.S. Patent Application filed. Date: \_\_\_\_\_; S.N.: \_\_\_\_\_.

Patent application in process of being drafted.

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: \_\_\_\_\_.

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