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WISCONSIN ALUMNI RESEARCH FOUNDATION

POST OFFICE BOX 7365

MADISON, WIS. 53707

TELEPHONE (608) 263-2500

September 17, 1979

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, 1978 through July 30, 1979, which represents the fiscal year of the Wisconsin Alumni Research Foundation, the designee of the University of Wisconsin, under the Agreement. *June*

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 1978

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: \$ _____ .

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? yes .

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

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.

STATUS OF NSF-FUNDED INVENTION

NSF File Number: 76-142 Disclosure Date: 5/18/76 Waiver Date:

Grantee Institution: Wisconsin Inventor(s): Blaedel-Jenkins

Invention Title: A Reagentless Lactate Electrode

Individual or Organization seeking licensees for invention:

WARF

U.S. Patent Application filed. Date: 12/13/76 ; S.N.: 752,421 .

U.S. Patent granted. Date: _____ ; No.: _____ .
Application abandoned -
Status of patent application if not yet granted: NSF notified 11/14/78 .
If U.S. patent has been denied or the application has been abandoned, has
the invention been disclosed in a publication? yes .

If so: Journal title: Analytical Chemistry ; Date: July 1976 .

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.
Germany	12/27/76	P2659071.6	- abandoned	12/28/78

STATUS OF NSF-FUNDED INVENTION

NSF File Number: 79-22 Disclosure Date: 12/16/78 Waiver Date:

Grantee Institution: Wisconsin Inventor(s): Cooper-Lilaonitkul

Invention Title: Ultra Low Frequency Test Assembly

Individual or Organization seeking licensees for invention:

WARF

U.S. Patent Application filed. Date: _____; S.N.: _____
NSF notified of decision not to file patent application - 6/13/79.

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 INVESTMENT

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: 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: \$ _____ .

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: 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: _____; No.: _____

Status of patent application if not yet granted: Application 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 INVESTMENT

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: _____; S.N.: _____
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: _____

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: 79-64 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

U.S. Patent Application filed. Date: _____; S.N.: _____
Application drafted and will be filed shortly.

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.

April 30, 1981

STATUS OF NSF-FUNDED INVENTION

No change from 1978

NSF File Number: 74-52 Disclosure Date: 2/22/74 Waiver Date:

Grantee Institution: Wisconsin Inventor(s): Mayhugh & Fullerton

Invention Title: Sensitized Thermoluminescent Phosphor & 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.
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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: 5/16/78 ; S.N.: 906,686 - abandoned 6/15/79
11/15/78 960,830 - continuation-in-
 U.S. Patent granted. Date: _____; No.: _____ part

Status of patent application if not yet granted: Application 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: 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? no
Are you still actively seeking licensees? Yes _____ No _____

FOREIGN PATENT STATUS

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: 78-30 Disclosure Date: 1/3/78 Waiver Date:

Grantee Institution: Wisconsin Inventor(s): Mistretta

Invention Title: Tomographic Time Interval Differencing

Individual or Organization seeking licensees for invention:

WARF

- U.S. Patent Application filed. Date: _____; S.N.: _____
NSF notified of decision not to file patent application - 10/27/78
- 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: 78-29 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: _____; No.: _____

Status of patent application if not yet granted: Application 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: (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 _____

FOREIGN PATENT STATUS

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 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:

WARF

U.S. Patent Application filed. Date: _____; S.N.: _____.
Application drafted and will be filed shortly.

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 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: _____

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 INVESTMENT

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.

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: 78-82 Disclosure Date: 8/4/78 Waiver Date:

Grantee Institution: Wisconsin Inventor(s): Reich-Chow

Invention Title: Benzeneseleninic Acids as Catalysts for Hydrogen Peroxide Oxidation

Individual or Organization seeking licensees for invention:

WARF

- U.S. Patent Application filed. Date: _____; S.N.: _____
NSF notified of decision not to file patent application - 5/14/79.
 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: \$ _____

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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:

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: _____ ; No.: _____ .

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

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:

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:

Grantee Institution: Wisconsin Inventor(s): Skoog-Schmitz-Hecht-Frye

Invention Title: Cytokinin Antagonists & Method of Production & 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? yes

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: 79-68 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

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: Received 1st Office Action 7/30/79.
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 x No _____

FOREIGN PATENT STATUS

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

STATUS OF NSF-FUNDED INVENTION

April 30, 1981
No change from 1978

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: \$ _____.

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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.

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: _____ .

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

<u>Country of filing</u>	<u>Filing date</u>	<u>Filing No.</u>	<u>Date Granted</u>	<u>Patent No.</u>

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: \$ _____.

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		
Germany	9/16/76	P2641618.2		
Great Britain	9/10/76	37633/76		
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: \$ _____ .

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Description:

SECOND 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.
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:

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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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 No _____ .

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	9/9/77	286,403		

STATUS OF NSF-FUNDED INVENTION

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

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:

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: 76-140 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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to Sep. 30, 1978: \$ _____ ; Oct. 1, 1978 to Sep. 30, 1979: \$ _____.

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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	2/1/77	270,802		