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WISCONSIN ALUMNI RESEARCH FOUNDATION

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September 12, 1977

Mr. Jesse E. Lasken
Assistant to the General Counsel
National Science Foundation
Washington, D. C. 20550

Dear Mr. Lasken:

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

This letter and the attachment will comprise the annual report required under the terms and provisions of the above noted agreement for the period from July 1, 1976 through June 30, 1977. Reported are new inventions which have been brought to WARF and reported to the National Science Foundation during the indicated period as well as information regarding inventions for which WARF was previously given responsibility under the Institutional Patent Agreement. You will find pertinent information regarding all of these inventions in the attached table.

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.

bc--Prof. Wm. H. Young

Mr. Kent Hill

Mr. Pike & Mr. Woepel

UNIVERSITY OF WISCONSIN-WARF
 NSF INSTITUTIONAL PATENT AGREEMENT INVENTION REPORT
 July 1, 1976-June 30, 1977

<u>Invention & Grant No.</u>	<u>Inventors</u>	<u>Invention Reported to NSF</u>	<u>Serial No. Filing Date</u>	<u>Development and Commercial Use</u>	<u>WARF Expenditures (Approx. Estimate)</u>
Molecular Nitrogen Laser NSF Grant Nos. 74-62-GP-40524 & GP-11704	Anderson, L. W. Fitzsimmons, W.	3/26/74	579,268 5/30/75	Inventors, dba National Research Group Inc., are manufacturing and selling laser per ERDA determination (joint funding from ERDA).	\$ 3,500
A Reagentless Lactate Electrode NSF Grant No. MPS 73-04991	Blaedel, W. J. Jenkins, R. A.	5/18/76	752,421 12/13/76	Inventors planning additional development work - commercial interests being sought.	\$ 3,500
Digital Secrecy Enciphering/Deciphering Machine NSF Grant No. DCR-74233653	Davida, G. I. Wells, D. L.	12/22/76	Pat. app. being drafted	No contact with industry to date.	\$ 500
Materials and Devices for High Sensitivity Solid State Ionization Chambers and Radiographic Imaging Systems NSF Grant No. CH-34585	Moran, P. R. Mayhew, M.	9/25/75	Invention held in abeyance pending more information to support filing pat. app. (NSF approved per letter 6/3/77)		\$ 500

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Josephson Junction Oscillator NSF Grant No. ENG 7508492	Scott, A. C.	With this report	Decision not yet made as to filing pat. app.		- -
Cytokinin Antagonists and Methods of Production and Use NSF Grant Nos. GB-25812 GB-35269X amended to BMS 72-02226	Skoog, F. Schmitz, R. Y. Hecht, S. M. Frye, R. B.	2/13/75	463,739 4/24/74	Option agreement with Dow Chem. Co. terminated by Dow (plant science field). License to Burroughs-Wellcome (mammalian field). A new potential licensee considering scope of interest in invention.	\$ 5,064 \$ 4,500 (apportioned expense)
Mestastable Argon Stabilized Arc Device NSF Grant No. GP-7795	Walters, J. P.	9/30/75	614,914 9/17/75	Potential licensee has built and placed two prototypes with industry for experimental feed-back.	\$10,000
Spark Source with Electronic Switching Tubes NSF Grant No. 74-76-GP-35602X	Walters, J. P. Bernier, J. A.	2/29/75	Pat. No. 3973167 issued 8/3/76	Invention jointly owned with Jarrell-Ash Co. - being used commercially by Jarrell-Ash Co.	\$15,000

<u>Invention & Grant No.</u>	<u>Inventors</u>	<u>Invention Reported to NSF</u>	<u>Serial No. Filing Date</u>	<u>Development and Commercial Use</u>	<u>WARF Expenditures (Approx. Estimate)</u>
Spark Source with Regulation of Spark Magnitude by Control of Spark Timing NSF Grant No. MPS 72-04971	Walters, J. P. Coleman, D. M.	4/26/76	662,891 3/1/76	Invention being used commercially by Jarrell-Ash Co.	\$ 7,500
Quinocyclopropane Derivatives NSF Grant No. MPS 74-01345	West, R. C. Beyer, D. E. Komatsu, K.	3/15/76	777,836 3/15/77	No contact with industry.	\$ 2,500
Chemical Analysis of Ions Incorporated in Lattices Using Coherent Excitation Sources NSF Grant No. MPS -74-24394	Wright, J. C.	3/25/76	657,252 2/11/76 Pat. No. 4007009 issued 2/8/77	Industry contacts have expressed no interest. Inventor plans to accumulate operative data.	\$ 3,500

<u>Invention & Grant No.</u>	<u>Inventors</u>	<u>Invention Reported to NSF.</u>	<u>Serial No. Filing Date</u>	<u>Development and Commercial Use</u>	<u>WARF Expenditures (Approx. Estimate)</u>
<u>INVENTIONS ON WHICH DHEW WAIVED RIGHTS TO NATIONAL SCIENCE FOUNDATION</u>					
Sentization of Radio- thermoluminescence in Dosimetry Grade LiF by Simultaneous Annealing and Ultra- violet Illumination NIH Grant No. 5-T01-CA05104-11 NSF Grant No. 74-52-GH 34585	Mayhugh, M. Fullerton, G.	2/22/74	Pat. No. 3962586 issued 6/8/76	Potential commercial interest exhausted.	\$ 4,250

INVENTIONS ON WHICH NSF WAIVED RIGHTS TO
DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

The Production of Radiation Induced Thermally Activated Current (RITAC) Devices by Selective Purification of Dielec- tric Solid Material NIH Grant No. 5-T01-CA-05104- 10 & 11 NSF Grant No. GH-34585	Moran, P. R. Podgorsak, E. Fullerton, G. Fuller, G. E.	3/18/74	Pat. No. 3935457 issued 1/27/76	Discussions continuing with two potential licensees.	\$ 8,000
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<u>Invention & Grant No.</u>	<u>Inventors</u>	<u>Invention Reported to NSF</u>	<u>Serial No. Filing Date</u>	<u>Development and Commercial Use</u>	<u>WARF Expenditures (Approx. Estimate)</u>
<u>JOINTLY REPORTED INVENTIONS</u> <u>DHEW INSTITUTIONAL PATENT AGREEMENT</u> <u>AND</u> <u>NSF INSTITUTIONAL PATENT AGREEMENT</u>					
Oxidative Decarboxylation of Carboxylic Acids NIH Grant No. 5-R01-GM-13598 NSF Grant No. 76-1-MPS-03396	Trost, B. M. Tamaru, Y.	3/18/75	578,533 5/19/75 Pat. No. 4007211 issued 2/8/77	Nature of process brought to attention of several companies - no commercial interest expressed.	\$ 2,500
Stereocontrol in Allylic Alkylation Catalyzed by Palladium NIH Grant No. 5-R01-GM-13598 NSF Grant No. 76-1-MPS-03396	Trost, B. M. Verhoeven, T.	2/6/76	646,640 1/5/76	Nature of process brought to attention of several companies - no expressed commercial interest to date.	\$ 2,000