September 8, 1976

Mr. John H. Raubitschek
Assistant to the General Counsel
for Patent Matters
National Science Foundation
Washington, D. C. 20550

Dear Mr. Raubitschek:

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, 1975 through June 30, 1976. 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--Mr. Lorenz
Prof. Young
Mr. Hess
Fike & Woerpel

UNIVERSITY OF WISCONSIN-WARF
NSF INSTITUTIONAL PATENT AGREEMENT INVENTION REPORT
July 1, 1975-June 30, 1976

Invention & Grant No.	Inventors	Invention Reported to NSF	Serial No. Filing Date	Development and Commercial Use	WARF Expenditures (Approx. Estimate)
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	(Joint funding from ERDA.) Inventors have formed company and sold lasers embodying the invention. ERDA determination requires grant of royalty-free license to inventors, personally and individually, and to their company. Such action awaiting confirmation of ERDA license to WARF.	$ 2,500
A Reagentless Lactate Electrode NSF Grant No. MPS 73-04991	Blaedel, W. J. Jenkins, R. A.	5/18/76	Pat. app. being drafted.	One company has expressed interest in license.	$ 500
Mechanical Leaf Cutter for Preparing Plant Tissue for Cell & Protoplast Isolation NSF Grant No. BMS 74-09611	Edwards, G. Huber, S.	6/20/76	Reported decision not to file 4/20/76; NSF's decision - Dedicate to Public - 6/23/76.		$ 250

Invention & Grant No.	Inventors	Invention Reported to NSF	Serial No. Filing Date	Development and Commercial Use	WARF Expenditures (Approx. Estimate)
A Method for Adjusting Desired Temperature-Time Fading Characteristics in Thermolumescent Phosphors, Applications in Wide Range Thermal Dose Monitoring NSF Grant No. CH-34585	Moran, P. R.	1/6/76	NSF notified of decision not to file pat. app. 3/15/76		$ 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	Decision still pending re filing pat. app.	No contact with industry.	$ 500

Invention & Grant No.	Inventors	Invention Reported to NSF	Serial No. Filing Date	Development and Commercial Use	WARF Expenditures (Approx. Estimate)
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. (plant science field). Option agreement being negotiated with another company for mammalian field.	$ 4,868 $ 3,500 (apportioned expense)
Mestastable Argon Stabilized Arc Device NSF Grant No. GP-7795	Walters, J. P.	9/30/75	614,914 9/17/75	License being negotiated with commercial interest.	$ 3,130
Spark Source with Electronic Switching Tubes NSF Grant No. 74-76-GP-35602X	Walters, J. P. Bernier, J. A.	2/29/75	568,577 4/16/75 (c-i-p of SN 445318 now aband.); Pat. No. 3973167 issued 8/3/76	Invention jointly owned with Jarrell-Ash Co. - being used commercially by Jarrell-Ash Co.	$14,000

Invention & Grant No.	Inventors	Invention Reported to NSF	Serial No. Filing Date	Development and Commercial Use	WARF Expenditures (Approx. Estimate)
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.	$ 5,000
Quinocyclopropane Derivatives NSF Grant No. MPS 74-01345	West, R. C. Beyer, D. E.	3/15/76	Pat. app. being drafted.	No contact with industry.	$ 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	Several industrial contacts made - no licensing to date because of preliminary state of invention.	$ 2,500

Invention & Grant No.	Inventors	Invention Reported to NSF	Serial No. Filing Date	Development and Commercial Use	WARF Expenditures (Approx. Estimate)
INVENTIONS ON WHICH DHEW WAIVED RIGHTS TO NATIONAL SCIENCE FOUNDATION					
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	523,322 11/13/74 Pat. No. 3962586 issued 6/8/76	Potential commercial interest exhausted.	$ 3,500
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-TO1-CA-05104-10 & 11 NSF Grant No. GH-34585	Moran, P.R. Podgorsak, E. Fullerton, G. Fuller, G.E.	3/18/74	497,874 8/16/74 Pat. No. 3935457 issued 1/27/76	Discussions continuing with potential licensee - licensing appears probable.	$ 7,000

Invention & Grant No.	Inventors	Invention Reported to NSF	Serial No. Filing Date	Development and Commercial Use	WARF Expenditures (Approx. Estimate)
		JOINTLY REPORTED INVENTIONS DHEW INSTITUTIONAL PATENT AGREEMENT AND NSF INSTITUTIONAL PATENT AGREEMENT			
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	Nature of process brought to attention of several companies - no commercial interest expressed.	$ 1,800
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	No industry contact to date.	$ 1,500