To the Director of the U.S. Pates To the Director of the U.S. Pates To the Director of the U.S. Pates Name of conveying party(ies) Name: UNIV. OF MEBRASKA BOARD OF RECENT TINO HOFMANN diditional name(s) of conveying party(ies) attached?		U.S. DEPARTMENT OF COMMERCE. United States Patent and Trademan Office United States Patent and Trademan Office
Name of conveying party(les) MATHIAS M. SCHUBERT; TINO HOFMANN Iditional name(s) of conveying party(les) attached?	N - 06E4 0027 (exp. U3/31/2000)	EET (58 JUN 1 4 2013 6
MATHLAS M. SCHUBERT; TINO HOFMANN Internal Address: Internal Address: 3835 HOLDRECE ST. Street Address: 3835 HOLDRECE S	1036593	d documents or the new andress(es) below.
Additional name(s) of conveying party(ies) attached? Yes No Nature of conveyance/Execution Date(s): Execution Date(s) 02/26/2013 Assignment Merger Security Agreement Change of Name Joint Research Agreement Government Interest Assignment Executive Order 9424, Confirmatory License Other 4. Application or patent number(s): A Patent Application No.(s) 13/815,487 Additional name(s) & address(es) attached? Yes Additional numbers attached? Yes No.(s) B. Patent No.(s) 6. Total number of applications and patents involved: Thermal Address: Name: JAMES D. WELCH Internal Address: 10328 PINEHURST AVE. Street Address: NEBRASKA Country: U.S.A. Zip: 68583 Additional name(s) & address(es) attached? Yes No. 6. Total number of applications and patents involved: This document is being filed together with a new application. B. Patent No.(s) 6. Total number of applications and patents involved: Thermal Address: Name: JAMES D. WELCH City: OMAHA State: No. Street Address: City: OMAHA State: No. Street Address: Deposit Account Number: Authorized (Government interest not affecting) 8. Payment Information Authorized (Government interest not affecting) 8. Payment Information	MATHIAS M. SCHUBERT;	Name:
Assignment	itional name(s) of conveying party(ies) attached? Yes No	Street Address:3835 HOLDREGE ST.
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Joint Research Agreement Government Interest Assignment Executive Order 9424, Confirmatory License Other Other This document is being filed together with a new application. B. Patent No.(s) Additional numbers attached? Yes No B. Patent No.(s) Additional numbers attached? Yes No B. Patent No.(s) 5. Name and address to whom correspondence concerning document should be mailed: Name: JAMES D. WELCH Internal Address: Street Address: 10328 PINEHURST AVE. Street Address: OMAHA State: NE Zip: 68124 Phone Number: 402-391-4448 Fax Number: 402-391-4448 Fax Number: JDWSCMOS@NETZERO.NET Email Address: JDWSCMOS@NETZERO.NET Email Address: Additional name(s) & address(es) attached? Yes No B. Patent No.(s) 6. Total number of applications and patents involved: 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged to deposit account None required (government interest not affecting None req	Security Agreement Change of Name	NEBRASKA
Executive Order 9424, Confirmatory License Other	Government Interest Assignment	Country:U.S.A. Zip:68583
A. Patent Application No.(s) 13/815,487 Additional numbers attached? Yes No 5. Name and address to whom correspondence concerning document should be mailed: Name: JAMES D. WELCH Internal Address: 10328 PINEHURST AVE. Street Address: 10328 PINEHURST AVE. Street Address: VE Zip: 68124 Phone Number: 402-391-4448 Fax Number: 402-391-4448 Email Address: JDWSCMOS@NETZERO.NET Email Address: JDWSCMOS@NETZERO.NET Email Address: 402-391-4448 Email Address: JDWSCMOS@NETZERO.NET Email Address: 402-391-4448	Executive Order 9424, Confirmatory License	No
5. Name and address to whom correspondence concerning document should be mailed: Name:	13/815,487	attached? Yes No
Name:	News and address to whom correspondence	6. Total number of applications and patents involved:
Internal Address: Street Address: 10328 PINEHURST AVE. Enclosed Internal Address: OMAHA State: NE Zip: 68124 Phone Number: 402-391-4448 Fax Number: Fax Number: JDWSCMOS@NETZERO.NET Email Address: JDWSCMOS@NETZERO.NET Authorized to be charged to deposit account Enclosed None required (government interest not affecting 8. Payment Information Deposit Account Number Authorized 'User Name' 00908037 13815487	Name:JAMES D. WELCH	- 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00
Street Address:OMAHA		Authorized to be charged to deposit account
State: NE Zip: 68124	Street Address: 10328 PINEHURST AVE.	Enclosed None required (government interest not affecting title
State: NE Zip: 68124 Phone Number: 402-391-4448 Deposit Account Number Fax Number: 402-391-4448 Authorized User Name Email Address: JDWSCMOS@NETZERO.NET 81 FC:8921 49.6	City: OMAHA	8. Payment Information
Fax Number: 402-391-4448 Email Address: JDWSCMOS@NETZERO.NET 81 FC:8921 Authorized User Name 90009937 13815487	State: <u>NE</u> Zip: 68124	
Email Address: JDWSCMOS@NETZERO.NET 91 FC:8921 49.6	Fax Number: 402-391-4448	
	TOUGCMOG ONETZERO, NET	
Signature \ Date		6/11/2013 Date
JAMES D. WELCH Total number of pages including cover sheet, attachments, and documents: Name of Person Signing Name of Person Signing cover sheet) should be faxed to (571) 273-0140, or mailed to:	Name of Person Signing	sheet, attachments, and documents:

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

ASSIGNMENT

WHEREAS WE, CRAIG M. HERZINGER, MATHIAS M. SCHUBERT, TINO HOFMANN, MARTIN M. LIPHARDT and JOHN A. WOOLLAM, are the Inventors of the invention titled "TERAHERTZ-INFRARED ELLIPSOMETER SYSTEM, AND METHOD OF USE"; and

WHEREAS WE are the owners of record of a United States Patent Application of the title recited above which is being submitted to the United States Patent Office, the Serial Number of which is 13/815,487; (to be filled-in when available), and

13/8/5/487

WHEREAS WE might pursue Foreign Patent Applications under the Cooperation Treaty and directly in Non-Member Nations which concern the same Invention and Improvements thereto; and

WHEREAS WE are, under the terms of an Agreement or Employment Contract with the J.A. WOOLLAM CO. INC. and/or THE BOARD OR REGENTS OF THE UNIVERSITY OF NEBRASKA, obligated to assign any and all Patent Applications and Patents which Issue thereon, Domestic and Foreign, Present and Future for said Invention and Improvements thereto to the J.A. WOOLLAM CO. INC. and/or THE BOARD OR REGENTS OF THE UNIVERSITY OF NEBRASKA; and

WHEREAS the J.A. WOOLLAM CO. INC. is desirous of accepting an Assignment of any and all interest in said Application(s) for Patent(s) and Patent(s) which Issue thereon, Domestic and Foreign, Present and Future as provided for in said Agreement or Employment Contract with the Inventors;

NOW THEREFORE, in recognition of the receipt of One Dollar (\$1.00) and other good, valuable and sufficient consideration received from J.A. WOOLLAM CO. INC. and/or THE BOARD OR REGENTS OF THE UNIVERSITY OF NEBRASKA, WE CRAIG M. HERZINGER, MATHIAS M. SCHUBERT, TINO HOFMANN, MARTIN M. LIPHARDT and JOHN A. WOOLLAM do:

1. Hereby Sell, Assign, Transfer and/or otherwise Set Over Without Reservation and Conditions other than those recited herein, to the J.A. WOOLLAM CO. INC. and/or THE BOARD OR REGENTS OF THE UNIVERSITY OF NEBRASKA, their Legal Representatives, Successors, Assigns etc. the entire interest in the Rights and Title to any Patent Applications and Patents which Issue thereon, Domestic and Foreign, Present and Future, for said Invention and Improvements; so that the J.A. WOOLLAM CO. INC. and/or THE BOARD OR REGENTS OF THE UNIVERSITY OF NEBRASKA shall hereafter each own an undivided 50% interest in all Rights and Title as fully and completely as WE would have owned said Rights and Title were the present Assignment not made, with the full understanding that the entire Rights and Title to said Invention shall immediately vest, irrevocably, in the J. A. WOOLLAM CO. INC. and/or THE BOARD OR

PATENT REEL: 030709 FRAME: 0151 REGENTS OF THE UNIVERSITY OF NEBRASKA, their Legal Representatives, Successors, Assigns etc.

- 2. Agree to execute all future documents as may be necessary to acquire issue of the Patent Application and additional Patents Applications for said Invention, and Improvements thereto, in the United States and in Foreign Countries.
- 3. Request that the Commissioner of Patents and Trademarks in the United States and the equivalent in Foreign Countries issue United States Patent Application, Serial Number 13/815,487, (to be filled-in when available), and such additional Patent Applications, Domestic or Foreign which result from future Patent Cooperation Treaty Patent Application, Foreign or Domestic Patent Applications to the J. A. WOOLLAM CO. INC. and/or THE BOARD OR REGENTS OF THE UNIVERSITY OF NEBRASKA, their Legal Representatives, Successors, Assigns etc., as the case might at the Issue Date thereof.
- 4. Agree that WE will, at no time, do anything to jeopardize the validity of any Patent or Patent Application, Domestic or Foreign, Present or Future other than as necessitated by the duty of Truthful Disclosure required during the normal course of Patent Application Prosecution or Litigation before an Examining or Judicial Authority.

IN AGREEMENT WITH THE FOREGOING, WE, CRAIG M. HERZINGER, MATHIAS M. SCHUBERT, TINO HOFMANN, MARTIN M. LIPHARDT and JOHN A. WOOLLAM AS INVENTORS, HEREBY WILLINGLY AND FREELY, IN RECOGNITION OF GOOD, VALUABLE AND SUFFICIENT CONSIDERATION RECEIVED FROM THE J.A. WOOLLAM CO. INC. AND/OR THE BOARD OR REGENTS OF THE UNIVERSITY OF NEBRASKA AND I, JOHN A. WOOLLAM, AS PRESIDENT OF THE J.A. WOOLLAM CO. INC. AND I, DAVID W. CONRAD, REPRESENTING THE BOARD OR REGENTS OF THE UNIVERSITY OF NEBRASKA, HEREBY AFFIX OUR SIGNATURES TO EFFECT THE TERMS OF THIS ASSIGNMENT, SAID SIGNATURES EACH BEING AFFIXED IN THE PRESENCE OF A NOTARY PUBLIC.

2-22-13 MATHIAS M. SCHUBERT

TINO AGEMANN

DATE

INVENTOR

DATE

INVENTOR

NOTARY PUBLIC

DATE

NOTARY PUBLIC

DATE



BRANDY J. POOLE MY COMMISSION EXPIRES Märch 17, 2016

BRANDY J. POOLE MY COMMISSION EXPIRES March 17, 2016

2/24/203 HERZINGER JOHN A. WOOLLAM INVENTOR INVENTOR AND PRESIDENT OF THE J.A. WOOLLAM CO. INC. BRANDY J. POOLE BRANDY J. POOLE MY COMMISSION EXPIRES MY COMMISSION EXPIRES March 17, 2016 March 17, 2016 DATE INVENTOR FOR THE BOARD OF REGENTS OF THE UNIVERSITY OF NEBRASKA BRANDY J. POOLE MY COMMISSION EXPIRES March 17, 2018

> PATENT REEL: 030709 FRAME: 0153

DATE

RECORDED: 06/14/2013