

12/06/2016

U.S. DEPARTMENT OF COMMERCE  
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BY: To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)

THOMAS E. TIWALD  
JEREMY A. VAN DERSLICE

Additional name(s) of conveying party(ies) attached?  Yes  No

3. Nature of conveyance/Execution Date(s):

Execution Date(s) 4/26/2016

- Assignment  Merger
- Security Agreement  Change of Name
- Joint Research Agreement
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other

2. Name and address of receiving party(ies)

Name: J.A. WOOLLAM CO., INC.

Internal Address: \_\_\_\_\_

Street Address: 645 M St.

City: LINCOLN

State: \_\_\_\_\_

Country: NEBRASKA Zip: 68508

Additional name(s) & address(es) attached?  Yes  No

4. Application or patent number(s):

A. Patent Application No.(s)

14/999,365

This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached?  Yes  No

5. Name and address to whom correspondence concerning document should be mailed:

Name: JAMES D. WELCH

Internal Address: \_\_\_\_\_

Street Address: 10328 PINEHURST AVE.

City: OMAHA

State: NE Zip: 68124

Phone Number: 402-391-4448

Fax Number: 402-391-4448

Email Address: JDWSCMOS1@NETZERO.NET

6. Total number of applications and patents involved: ONE

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- Authorized to be charged to deposit account
- Enclosed
- None required (government interest not affecting title)

8. Payment Information

Deposit Account Number \_\_\_\_\_

Authorized User Name \_\_\_\_\_

9. Signature:

Signature

11/29/2016  
Date

JAMES D. WELCH

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

3

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

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PATENT  
REEL: 040852 FRAME: 0599

ASSIGNMENT

WHEREAS WE, THOMAS E. TIWALD AND JEREMY A. Van DERSLICE, are the Inventors of the invention titled "METHOD TO ENHANCE SENSITIVITY TO SURFACE-NORMAL OPTICAL REFLECTIONS OF ANISOTROPIC FILMS USING ATTENUATED TOTAL REFLECTION"; and

14/999,365  
WHEREAS WE are the owner 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 14/999,365 ; (to be filled-in when available), and

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. 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

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. WE THOMAS E. TIWALD AND JEREMY A. Van DERSLICE 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., its 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. shall hereafter own all Rights and Title as fully and completely as I 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. its 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 14/999,365, (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. its Legal Representatives, Successors, Assigns etc., as the case might at the Issue Date thereof.

4. Agree that I 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, THOMAS E. TIWALD AND JEREMY A. Van DERSLICE AS INVENTORS, HEREBY WILLINGLY AND FREELY, IN RECOGNITION OF GOOD, VALUABLE AND SUFFICIENT CONSIDERATION RECEIVED FROM THE J.A. WOOLLAM CO. INC. AND I, JOHN A. WOOLLAM, AS PRESIDENT OF THE J.A. WOOLLAM CO. INC. HEREBY AFFIX OUR SIGNATURES TO EFFECT THE TERMS OF THIS ASSIGNMENT, SAID SIGNATURES EACH BEING AFFIXED IN THE PRESENCE OF A NOTARY PUBLIC.

*Thomas E. Tiwald* 4-26-16 *Jeremy A. Van Derslice* 4/26/16  
THOMAS E. TIWALD DATE JEREMY A. Van DERSLICE DATE  
INVENTOR

General Notary - State of Nebraska  
BRANDY J. POOLE  
My Comm. Exp. March 17, 2020.

General Notary - State of Nebraska  
BRANDY J. POOLE  
My Comm. Exp. March 17, 2020.

*Brandy J. Poole* 4-26-2016 *Brandy J. Poole* 4-26-16  
NOTARY PUBLIC DATE NOTARY PUBLIC DATE

*John A. Woollam* 4/26/16  
JOHN A. WOOLLAM DATE  
PRESIDENT OF THE  
J.A. WOOLLAM CO. INC.

*Brandy J. Poole* 4-26-2016  
NOTARY PUBLIC DATE

State of Nebraska  
BRANDY J. POOLE  
Exp. March 17, 2020.

General Notary - State of Nebraska  
BRANDY J. POOLE  
My Comm. Exp. March 17, 2020.