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	ed documents or the new address(es) below.
Name of conveying party(ies)	2. Name and address of receiving party(ies)
	Name:J.A. WOOLLAM CO., INC.
CRAIG M. HERZINGER	Internal Address:
Additional name(s) of conveying party(ies) attached? Yes N	
3. Nature of conveyance/Execution Date(s):	Street Address: 645 M St.
Execution Date(s) 05/14/2018	outset Address. The St.
Assignment Merger	
Security Agreement Change of Name	City:LINCOLN
Joint Research Agreement	State:
Government Interest Assignment	
Executive Order 9424, Confirmatory License	Country: NEBRASKA Zip: 68124
Other	Additional name(s) & address(es) attached? Yes No
4. Application or patent number(s): A. Patent Application No.(s) This document is being filed together with a new application.	
ye rate it Application No.(S)	B. Patent No.(s)
15/932,578	
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Additional numbers att	ached? Yes No
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents
Name: JAMES D. WELCH	involved: ONE ONE
Internal Address:	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40×00 50.00
menia Address.	2000 20.00
Street Address: 10328 PINEHURST AVE.	Authorized to be charged to deposit account
Street Address: 10328 PINEHURST AVE.	Enclosed ·
O'A. GWATTA	None required (government interest not affecting title)
City: OMAHA	8. Payment Information
State: NE Zip: 68124	
Phone Number 402-391-4448	
Fax Number: 402-391-4448	Deposit Account Number
Email Address: JDWSCMOS1@NETZERO.NET	Authorized User Name
. Signature:	05/1/015
Signature	03/01/2018 Date
MAMES D. WELCH	Total number of pages including cover
Name of Person Signing	sheet attachments and do

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, 85/23/2018 KNGUYEN1 00309004 15932578

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PATENT REEL: 046933 FRAME: 0803

WHEREAS I, CRAIG M. HERZINGER am the Inventor of the invention titled "BIASED FAST AXIS RETARDER SYSTEM"; and

WHEREAS I am 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 15/932.578; and

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

WHEREAS I am, 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 Patent(s) 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., I CRAIG M. HERZINGER do:

- 1. Hereby Sell, Assign, Transfer and/or otherwise Set Over Without Reservation and Conditions other than those recited without Reservation and Conditions other than those recited Successors, to the J.A. WOOLLAM CO. INC., its Legal Representatives, berein, to the J.A. WOOLLAM CO. INC., its Legal Representatives, successors, Assigns etc. the entire interest in the Rights and Successors, Assigns etc. the entire interest in the Rights and Title to Said thereon, Domestic and Foreign, present and Future, for Said thereon, Domestic and Foreign, present and Future, for Said Invention and Improvements; so that the J.A. WOOLLAM CO. INC. INC. Inc. Invention and Improvements; so that the J.A. Woollam Co. Inc., its Legal 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

PATENT REEL: 046933 FRAME: 0804 United States Patent Application, Serial Number 15/932,578, 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, I CRAIG M. HERZINGER AS INVENTOR, 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., AFFIX OUR SIGNATURES TO EFFECT THE TERMS OF THIS ASSIGNMENT, SAID SIGNATURES EACH BEING AFFIXED IN THE PRESENCE OF A NOTARY PUBLIC.

JOHN A. WOOLLAM

CRAIG M. HERZINGER

PRESIDENT OF THE J.A. WOOLLAM CO. INC.

INVENTOR

GENERAL NOTARY - State of Nebraska LISA M HUFF My Comm. Exp. August 18, 2020

GENERAL NOTARY - State of Nebraska LISA M HUFF My Comm. Exp. August 18, 2020

PATENT REEL: 046933 FRAME: 0805

RECORDED: 09/14/2018