

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT3803078

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
MICHAEL J. ESCUTI	10/10/2011
RAVI K. KOMANDURI	10/07/2011
JIHWAN KIM	10/07/2011
KRISTOPHER F. LAWLER JR.	10/07/2011
RECEIVING PARTY DATA	
Name:	NORTH CAROLINA STATE UNIVERSITY
Street Address:	CAMPUS BOX 8210
City:	RALEIGH
State/Country:	NORTH CAROLINA
Postal Code:	27695
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14349929
CORRESPONDENCE DATA	
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<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
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ATTORNEY DOCKET NUMBER:	5051-804TS
NAME OF SUBMITTER:	CAREY GREGORY
SIGNATURE:	/cbg/
DATE SIGNED:	03/28/2016
Total Attachments: 5	
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ASSIGNMENT

THIS ASSIGNMENT, made by me, **Michael J. Escuti**, a citizen of United States of America, residing at 122 Agassi Ct., Cary, North Carolina 27695, **Ravi K. Komanduri**, a citizen of India, residing at 2509 Avent Ferry Rd., Apt B, Raleigh, North Carolina 27606; **Jihwan Kim**, a citizen of the Republic of Korea, residing at 6211-104 Pitchkettle Rd., Raleigh, North Carolina 27606; and **Kristopher F. Lawler, Jr.**, a citizen of United States of America, residing at 44303 Havers Drive, Cary, North Carolina 27695;

WITNESSETH: That,

WHEREAS, we are joint inventors of certain new and useful improvements in **POLARIZATION CONVERSION SYSTEMS WITH POLARIZATION GRATINGS AND RELATED FABRICATION METHODS** for which an application has been filed, or is being concurrently filed, in the United States Patent and Trademark Office. We hereby authorize and request Myers Bigel Sibley & Sajoyec, P.A., to insert here in parentheses (Application No. 61/544,888, filed 10/7/11) the filing date and application number of said application when known or to file this Assignment concurrently with the application; and

WHEREAS, North Carolina State University, a constituent institution of The University of North Carolina and an educational institution chartered under the laws of the State of North Carolina having a principal place of business at Campus Box 8210, City of Raleigh, State of North Carolina, hereinafter referred to as assignee, is desirous of acquiring my entire right, title and interest in and to said invention as described in said application(s), and in and to any and all Letters Patent which shall be granted therefor in the United States of America and all foreign countries;


NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we have sold and by these presents do hereby sell, assign, transfer, and convey unto the said assignee, its successors and assigns, the entire right, title, and interest in and to the said invention and provisional application, and in and to any and all subsequent patent applications which claim the benefit of priority from said provisional application including regular utility, continuations, and continuations-in-part, or divisions thereof, and in and to any and all Letters Patent of the United States of America and all foreign countries or reissues or other forms of protection thereof which may be granted for the invention in or on applications claiming the benefit of priority from said

provisional application, for the full end of the term for which said Letters Patent may be granted along with any term extensions thereof or therefor, together with the right to claim the benefit of priority from said application in all foreign countries in accordance with the International Convention, the same to be held and enjoyed by said assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by me if this assignment and sale had not been made.

We further covenant and agree that, at the time of the execution and delivery of these presents, we possess full title to the invention and provisional application above-mentioned, and that I have the unencumbered right and authority to make this assignment.

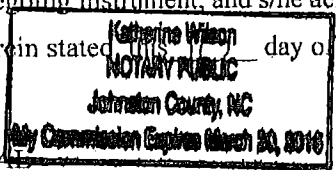
We further covenant and agree to communicate to said assignee or its representatives any facts known to us relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the assignee, its representatives, successors, or assigns to secure patent or similar protection for the said invention in all countries and to vest in the assignee complete title to the said invention and Letters Patent, without further compensation, but at the expense of said assignee, its successors, assigns, and other legal representatives; and we hereby instruct, and further covenant and agree to bind our heirs, legal representatives, and assigns, to do same, without further compensation, but at the expense of said assignee or its representatives.

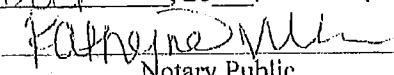
IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 10th day of October, 2011.

 (SEAL)
Michael J. Escuti

STATE OF North Carolina)
COUNTY OF Wake) ss:

Before me personally appeared **Michael J. Escuti** described in and who executed the foregoing instrument, and s/he acknowledged to me that s/he executed the same for the purposes therein stated.



day of October, 2011.

Katherine Wilson
Notary Public

My Commission Expires: 3/30/16

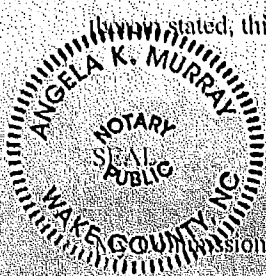
IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 7th day of October, 2011.

Ravi K. Komanduri (SEAL)

STATE OF North Carolina)
COUNTY OF Wake) ss:

Before me personally appeared Ravi K. Komanduri described in and who executed the foregoing instrument, and s/he acknowledged to me that s/he executed the same for the purposes


stated; this 7 day of October, 2011.



Angela K. Murray
Notary Public

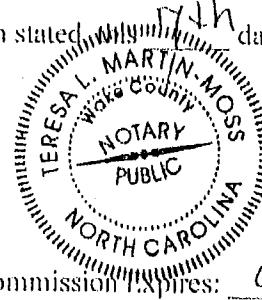
Commission Expires: June 24, 2013

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 7 day of October, 2011.

 (SEAL)
Jihwan Kim

STATE OF NC)
COUNTY OF Wake) ss:

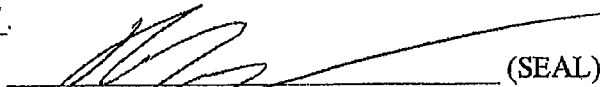
Before me personally appeared **Jihwan Kim** described in and who executed the foregoing instrument, and s/he acknowledged to me that s/he executed the same for the purposes therein stated, on the 7th day of October, 2011.

 Teresa L. Martin-Moss
Notary Public

SEAL

My Commission Expires: 9-7-15

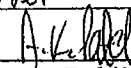
IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 7 day of October, 2011.


 Kristopher F. Lawler, Jr. (SEAL)

STATE OF WASHINGTON)
) ss:
 COUNTY OF KING)

Before me personally appeared **Kristopher F. Lawler, Jr.**, described in and who executed the foregoing instrument, and s/he acknowledged to me that s/he executed the same for the purposes therein stated, this 7th day of October, 2011.




 Notary Public

My Commission Expires: MAR 19 2014