

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT														
NATURE OF CONVEYANCE:	ASSIGNMENT														
CONVEYING PARTY DATA															
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>GARY PICKRELL</td><td>08/18/2004</td></tr><tr><td>DANIEL KOMINSKY</td><td>09/08/2004</td></tr><tr><td>ROGER STOLEN</td><td>08/24/2004</td></tr><tr><td>JEONG KIM</td><td>09/17/2004</td></tr><tr><td>ANBO WANG</td><td>08/19/2004</td></tr><tr><td>AHMAD SAFAAI-JAZI</td><td>09/02/2004</td></tr></tbody></table>		Name	Execution Date	GARY PICKRELL	08/18/2004	DANIEL KOMINSKY	09/08/2004	ROGER STOLEN	08/24/2004	JEONG KIM	09/17/2004	ANBO WANG	08/19/2004	AHMAD SAFAAI-JAZI	09/02/2004
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RECEIVING PARTY DATA															
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Street Address:	301 Burruss Hall														
City:	Blacksburg														
State/Country:	VIRGINIA														
Postal Code:	24061														
PROPERTY NUMBERS Total: 1															
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>14023031</td></tr></tbody></table>		Property Type	Number	Application Number:	14023031										
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Application Number:	14023031														
CORRESPONDENCE DATA															
Fax Number:	(540)951-5292														
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<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>															
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ATTORNEY DOCKET NUMBER:	02.112_1 DIV														
NAME OF SUBMITTER:	MARK S. COBURN														

PATENT

Signature:	/Mark S. Coburn/
Date:	10/09/2013
Total Attachments: 3 source=02.112 Assign Inv to VT - Div 14.023.031#page1.tif source=02.112 Assign Inv to VT - Div 14.023.031#page2.tif source=02.112 Assign Inv to VT - Div 14.023.031#page3.tif	

ASSIGNMENT

WHEREAS, Gary Pickrell, Daniel Kominsky, Roger Stolen, Jeong Kim, Anbo Wang, and Ahmad Safaai-Jazi, all of Blacksburg, Virginia, (hereinafter referred to as **ASSIGNORS**), have invented certain new and useful improvements in an invention entitled:

**HOLEY OPTICAL FIBER WITH RANDOM PATTERN OF HOLES AND METHOD
FOR MAKING SAME**

for which an application for United States Letters Patent was filed on 06/09/2004 and has been accorded serial number 10/863,805; and

WHEREAS, Virginia Polytechnic Institute & State University, (hereinafter referred to as **ASSIGNEE**), an institute of higher education organized under the laws of the Commonwealth of Virginia, having an office and principal place of business at Blacksburg, Virginia, is desirous of acquiring the entire right, title and interest in, to and under said application and said invention and in, to and under Letters Patent or similar legal protection to be obtained therefor in the United States and in any and all foreign countries.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that in consideration of the payment by **ASSIGNEE** to **ASSIGNORS** of the sum of One Dollar (\$1.00), the receipt and sufficiency of which is hereby acknowledged, and for other good and valuable consideration, **ASSIGNORS** hereby sell, assign and transfer to **ASSIGNEE**, its lawful successors and assigns, the full and exclusive right, title and interest to said invention in the United States and its territorial possessions and in all foreign countries and to all Letters Patent or similar legal protection in the United States and its territorial possessions and in any and all foreign countries to be obtained for said invention by said application or any continuation, division, continuation-in-part, reexamination, renewal, substitute, extension or reissue thereof or any legal equivalent thereof in a foreign country for the full term or terms for which the same may be granted; and authorize and request the Commissioner of Patents of the United States and any official of any foreign country whose duty it is to issue patents or legal equivalents thereto, to issue same for this invention to **ASSIGNEE**, its lawful successors and assigns.

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

ASSIGNORS further covenant that **ASSIGNEE** will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to **ASSIGNORS** and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to **ASSIGNEE** or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof in any foreign country which may be necessary or desirable to carry out the purposes thereof.

PATENT

REEL: 015846 FRAME: 0309

PATENT

REEL: 031369 FRAME: 0650

IN WITNESS WHEREOF, ASSIGNOR has caused the hand of its proper office to be subscribed hereto this 18th day of August, 2004.

Witnessed by:

Debbie Collins

Gary L. Pickrell
Gary Pickrell

IN WITNESS WHEREOF, ASSIGNOR has caused the hand of its proper office to be subscribed hereto this 9th day of September, 2004.

Witnessed by:

[Signature]

Daniel Kominsky
Daniel Kominsky

IN WITNESS WHEREOF, ASSIGNOR has caused the hand of its proper office to be subscribed hereto this 24 day of August, 2004.

Witnessed by:

Kenneth K. Medley

Roger Stolen
Roger Stolen

IN WITNESS WHEREOF, ASSIGNOR has caused the hand of its proper office to be subscribed hereto this 11th day of September, 2004.

Witnessed by:

[Signature]

Jeong I. Kim
Jeong I. Kim

IN WITNESS WHEREOF, ASSIGNOR has caused the hand of its proper office to be subscribed hereto this 19 day of AUGUST, 2004.

Witnessed by:

Debra Collins

Anbo Wang
Anbo Wang

IN WITNESS WHEREOF, ASSIGNOR has caused the hand of its proper office to be subscribed hereto this 2 day of September, 2004.

Witnessed by:

Carl Dietrich

A. Safaai-Jazi
Ahmad Safaai-Jazi