

PATENT ASSIGNMENT

Electronic Version v1.1

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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>Alfons Schulte</td> <td>05/11/2012</td> </tr> <tr> <td>Silki Arora</td> <td>03/21/2012</td> </tr> </tbody> </table>		Name	Execution Date	Alfons Schulte	05/11/2012	Silki Arora	03/21/2012
Name	Execution Date						
Alfons Schulte	05/11/2012						
Silki Arora	03/21/2012						
RECEIVING PARTY DATA							
Name:	University of Central Florida Research Foundation Inc.						
Street Address:	12201 Research Parkway						
Internal Address:	Suite 501						
City:	Orlando						
State/Country:	FLORIDA						
Postal Code:	32826-3246						
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>13425670</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13425670		
Property Type	Number						
Application Number:	13425670						
CORRESPONDENCE DATA							
Fax Number:	(607)330-4015						
Phone:	607.330.4000						
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<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>							
Correspondent Name:	Bond , Schoeneck & King, PLLC						
Address Line 1:	10 Brown Road , Suite 102						
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ATTORNEY DOCKET NUMBER:	1335P005C/591387						
NAME OF SUBMITTER:	William Greener						
Total Attachments: 4 source=ucfassign#page1.tif source=ucfassign#page2.tif source=ucfassign#page3.tif source=ucfassign#page4.tif							

CH \$40.00 13425670

**GRADIENT INDEX (GRIN)-BASED ABSORPTION SPECTROSCOPY APPARATUS,
METHOD, AND APPLICATIONS**

ASSIGNMENT

WHEREAS, I, **Alfons Schulte**, a citizen of **Germany**, residing at **3331 Hadleigh Crest, Orlando, FL 32817**, invented certain new and useful improvements in **GRADIENT INDEX (GRIN)-BASED ABSORPTION SPECTROSCOPY APPARATUS, METHOD, AND APPLICATIONS** for which the application was filed for a Letters Patent with the United States Patent and Trademark Office on March 21, 2012, as U.S. Application 13/425,670.

AND WHEREAS, **University of Central Florida Research Foundation Inc.**, with its principal place of business at **12201 Research Parkway, Suite 501, Orlando, FL 32826-3246**, is entitled to acquire the entire right, title and interest in and to the said improvements and the said Application:

NOW, THEREFORE, for good and valuable consideration, including salary or payment for the making of inventions, or employee benefits, the receipt of which is hereby acknowledged, we, the said inventors, do hereby acknowledge that we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said **University of Central Florida Research Foundation Inc.**, its successors, legal representatives and assigns, the entire right, title and interest throughout the world in, to and under the said improvements, and the said application and all divisions, renewals, and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and we hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said **University of Central Florida Research Foundation Inc.**, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we will communicate to the said **University of Central Florida Research Foundation Inc.**, its successors, legal representatives, and assigns, any facts known to us respecting said improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths and generally do everything possible to aid the said **University of Central Florida Research Foundation Inc.**, and its successors, legal representatives, and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

UCF Ref. No. 32113
BSK Ref. No. 1335P005C

**GRADIENT INDEX (GRIN)-BASED ABSORPTION SPECTROSCOPY APPARATUS,
METHOD, AND APPLICATIONS**

IN TESTIMONY WHEREOF, I hereunto set my hand this 11 day of
May, 2012

Alfons Schulte
Alfons Schulte

Date 5/11/12 Witness [Signature]

**GRADIENT INDEX (GRIN)-BASED ABSORPTION SPECTROSCOPY APPARATUS,
METHOD, AND APPLICATIONS**

ASSIGNMENT

WHEREAS, I, **Alfons Schulte**, a citizen of **Germany**, residing at **3331 Hadleigh Crest, Orlando, FL 32817**, and **Silki Arora**, a citizen of **India**, residing at **1851 Bonneville Drive, Orlando, FL 32826**, invented certain new and useful improvements in **GRADIENT INDEX (GRIN)-BASED ABSORPTION SPECTROSCOPY APPARATUS, METHOD, AND APPLICATIONS** for which the application was filed for a Letters Patent with the United States Patent and Trademark Office on March 21, 2012, as U.S. Application 13/425,670.

AND WHEREAS, **University of Central Florida Research Foundation Inc.**, with its principal place of business at **12201 Research Parkway, Suite 501, Orlando, FL 32826-3246**, is entitled to acquire the entire right, title and interest in and to the said improvements and the said Application:

NOW, THEREFORE, for good and valuable consideration, including salary or payment for the making of inventions, or employee benefits, the receipt of which is hereby acknowledged, we, the said inventors, do hereby acknowledge that we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said **University of Central Florida Research Foundation Inc.**, its successors, legal representatives and assigns, the entire right, title and interest throughout the world in, to and under the said improvements, and the said application and all divisions, renewals, and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and we hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said **University of Central Florida Research Foundation Inc.**, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we will communicate to the said **University of Central Florida Research Foundation Inc.**, its successors, legal representatives, and assigns, any facts known to us respecting said improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths and generally do everything possible to aid the said **University of Central Florida Research Foundation Inc.**, and its successors, legal representatives, and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

**GRADIENT INDEX (GRIN)-BASED ABSORPTION SPECTROSCOPY APPARATUS,
METHOD, AND APPLICATIONS**

IN TESTIMONY WHEREOF, I hereunto set my hand this _____ day of _____, 2012

Alfons Schulte

Date _____ Witness _____

IN TESTIMONY WHEREOF, I hereunto set my hand this 21 day of March, 2012

Silki

Silki Arora

Date 3/21/2012. Witness *[Signature]*