501999922 07/24/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|-----------------|----------------|
| Sunil Bhave | 07/23/2012 |
| Suresh Sridaran | 07/24/2012 |

RECEIVING PARTY DATA

| Name: | Cornell University - Cornell Center for Technology Enterprise & Commercialization (CCTEC) |
|-------------------|---|
| Street Address: | 395 Pine Tree Road |
| Internal Address: | Suite 310 |
| City: | Ithaca |
| State/Country: | NEW YORK |
| Postal Code: | 14850 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 13556617 |

CORRESPONDENCE DATA

 Fax Number:
 6073304015

 Phone:
 607-330-4000

 Email:
 bskpto@bsk.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US

Mail.

Correspondent Name: BOND, SCHOENECK & KING, PLLC
Address Line 1: 10 BROWN ROAD, SUITE 102
Address Line 4: ITHACA, NEW YORK 14850-1248

| ATTORNEY DOCKET NUMBER: | 606P032B/591456 |
|-------------------------|-----------------|
| NAME OF SUBMITTER: | William Greener |

Total Attachments: 4

source=assign#page1.tif source=assign#page2.tif source=assign#page3.tif source=assign#page4.tif

> PATENT REEL: 028624 FRAME: 0595

TCH \$40.00 1355(

501999922

ASSIGNMENT

WHEREAS, I, Sunil Bhave, a citizen of India, residing at 190 Pleasant Grove Road, Apt. #16, Ithaca, NY 14850, USA, and Suresh Sridaran, a citizen of India, residing at 301 Maple Avenue, Apt. #F4, Ithaca, NY 14850 USA, have invented certain new and useful improvements in MONOLITHIC SILICON ACOUSTO-OPTIC MODULATOR STRUCTURE AND METHOD the application of which is filed herewith.

AND WHEREAS, Cornell University, with its principal place of business at, Cornell Center for Technology Enterprise & Commercialization (CCTEC), 395 Pine Tree Road, Suite 310, Ithaca, NY 14850, 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 Cornell University, 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 Cornell University, 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 Cornell University, 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 Cornell University, and its successors, legal representatives, and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

2021599.1 7/17/2012

PATENT REEL: 028624 FRAME: 0596

ATTORNEY DOCKET NO. 606P032B CCTEC Ref. No. 4267-04-US MONOLITHIC SILICON ACOUSTO-OPTIC MODULATOR STRUCTURE AND METHOD

| | IN TESTIMONY WHEREOF, I hereunto set my hand this _23 day of |
|-------|--|
| _July | , 2012 |
| | |
| | Bhaus |
| | Sunil Bhave |
| | IN TESTIMONY WHEREOF, I hereunto set my hand this day of, 2012 |
| | |
| | Suresh Sridaran |

2021599.1 7/17/2012

PATENT REEL: 028624 FRAME: 0597

ASSIGNMENT

WHEREAS, I, Sunil Bhave, a citizen of India, residing at 190 Pleasant Grove Road, Apt. #16, Ithaca, NY 14850, USA, and Suresh Sridaran, a citizen of India, residing at 5225 White Willow Drive, Apt. 0230, Fort Collins, CO 80528 USA, have invented certain new and useful improvements in SILICON ACOUSTO-OPTIC MODULATOR STRUCTURE AND METHOD the application of which is filed herewith.

AND WHEREAS, Cornell University, with its principal place of business at, Cornell Center for Technology Enterprise & Commercialization (CCTEC), 395 Pine Tree Road, Suite 310, Ithaca, NY 14850, 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 Cornell University, 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 Cornell University, 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 Cornell University, 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 Cornell University, and its successors, legal representatives, and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

2021599.1 7/17/2012

PATENT REEL: 028624 FRAME: 0598

ATTORNEY DOCKET NO. 606P032B CCTEC Ref. No. 4267-04-US MONOLITHIC SILICON ACOUSTO-OPTIC MODULATOR STRUCTURE AND METHOD

| | IN TESTIMONY WHEREOF, I hereunto set my hand this day of, 2012 |
|------|---|
| | Sunil Bhave |
| JULY | IN TESTIMONY WHEREOF, I hereunto set my hand this 24 th day of, 2012 |
| | Suresh Sridaran |

2021599.1 7/17/2012

PATENT REEL: 028624 FRAME: 0599

RECORDED: 07/24/2012