



04/26/2012



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U.S. Department of Commerce  
United States Patent and Trademark Office

Our Ref.: SCS-550-1489

|  |   |
|--|---|
| To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.  |   |
| 1. Name of conveying party(ies):<br>1 David T. BLAAUW 5<br>2 Dennis M. SYLVESTER 6<br>3 Sudhir Kumar SATPATHY 7<br>4 8<br><br>Additional name/s of conveying party/ies attached? <input type="checkbox"/><br>3. Nature of conveyance:<br><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger<br><input type="checkbox"/> Security Assignment <input type="checkbox"/> Change of Name<br><input type="checkbox"/> Other _____<br><br>Execution Date: March 15, 2012; March 15, 2012 & March 14, 2012 | 2. Name and address of receiving party(ies):<br>1) Name: The Regents of the University of Michigan<br>Street Address: 1600 Huron Parkway, 2nd Floor<br>City: Ann Arbor<br><br>State/Country: Michigan Zip: 48109<br><br>2) Name<br>Street Address:<br>City:<br>State/Country: Zip:<br><br>Additional name/s & address/es attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  |
| 4. Application number(s) or patent number(s): <input type="checkbox"/> This assignment is being filed together with a new application.<br>A. Patent Application No(s).<br>(1) 13/368,385<br>(2)<br>(3)<br><br>Additional numbers attached <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>B. Patent No(s).<br>(1)<br>(2)<br>(3)   | 6. Total number of applications & patents involved: 1<br><br>7. Total fee (37 CFR 3.41) \$ 40.00<br><input checked="" type="checkbox"/> Enclosed<br><input type="checkbox"/> Authorized to be charged to deposit account #14-1140<br><br>8. The Commissioner is hereby authorized to charge any deficiency in the fee(s) filed, or asserted to be filed, or which should have been filed herewith (or with any paper thereafter filed in this application by this firm) to our Account No. 14-1140. |
| 5. Name and address of party to whom correspondence concerning document should be mailed:<br><br>Name: Stanley C. Spooner<br><br>Internal Address: _____<br><br>Street Address: Nixon & Vanderhye P.C.<br>901 North Glebe Road<br>11th Floor<br>City: Arlington State: VA Zip: 22203   |   |
| DO NOT USE THIS SPACE  |   |
| 9. Statements and signature.<br>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.<br><br>Stanley C. Spooner<br>Name of Person Signing<br>Reg. No. 27,393<br><br>Signature<br><br>April 23, 2012<br>Date<br><br>Total number of pages including original cover sheet, attachments, and document: [5]   |   |

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, VA 22313-1450

04/24/2012 EEKUBAY1 00000010 13368385

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PATENT  
REEL: 028177 FRAME: 0167

1978740

United States and  
Foreign (Joint)

Case: 550-1489

### ASSIGNMENT AND AGREEMENT

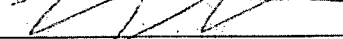
FOR VALUE RECEIVED, and to perfect the ownership of the Regents as established under Regents Bylaw 3.10 of the University of Michigan, we, David T. Blaauw, Dennis M. Sylvester and Sudhir Kumar Satpathy, all of Ann Arbor, Michigan, hereby sell, assign and transfer to The Regents of the University of Michigan, a not-for-profit organization duly organized and existing under the laws of the State of Michigan as assignee, and its successors, assigns and legal representatives, our entire right, title and interest for the patent application having a Serial Number of **13/368,385** and a filing date of **February 8, 2012** and any application claiming priority thereto; any continuation, continuation-in-part, divisional, re-examination, reissue or prolongation thereof; and all the rights and privileges under any United States Letters Patent and all foreign Letters Patent that may be granted therefor, including the inventions described therein. We hereby grant permission for the attorney of record to insert the filing information into this agreement.

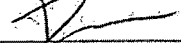
We request that any and all United States and foreign patents for the inventions be issued to the assignee, its successors, assigns and legal representatives, or to such nominees as it may designate.

We agree that, when requested, we will sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for the inventions in any and all countries, and for vesting title thereto in the assignee, its successors, assigns and legal representatives or nominees.

We authorize and empower the assignee, its successors, assigns and legal representatives or nominees, to invoke and claim for any application for patent or other form of protection for the inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from us.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the assignee or nominee to claim the aforesaid benefit of the right of priority provided by the International convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

Signed:   
David T. Blaauw

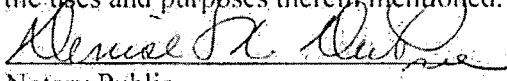
Signed:   
Dennis M. Sylvester

Signed: \_\_\_\_\_  
Sudhir Kumar Satpathy

STATE OF \_\_\_\_\_ )  
 ) ss.  
COUNTY OF \_\_\_\_\_ )

DENISE M. DUPRIE  
NOTARY PUBLIC, STATE OF MI  
COUNTY OF LIVINGSTON  
MY COMMISSION EXPIRES Oct 8, 2018  
ACTING IN COUNTY OF WASHTENAW

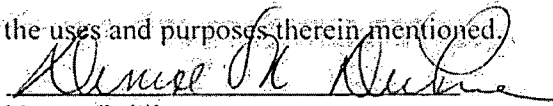
On this 15<sup>th</sup> day of March, 2012, personally appeared before me David T. Blaauw, to me known to be the persons who executed the above instrument and acknowledged that he executed the same for the uses and purposes therein mentioned.

  
Notary Public  
My Commission Expires:

STATE OF \_\_\_\_\_ )  
 ) ss.  
COUNTY OF \_\_\_\_\_ )

DENISE M. DUPRIE  
NOTARY PUBLIC, STATE OF MI  
COUNTY OF LIVINGSTON  
MY COMMISSION EXPIRES Oct 8, 2018  
ACTING IN COUNTY OF WASHTENAW

On this 15<sup>th</sup> day of March, 2012, personally appeared before me Dennis M. Sylvester, to me known to be the persons who executed the above instrument and acknowledged that he executed the same for the uses and purposes therein mentioned.

  
Notary Public  
My Commission Expires:

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the assignee or nominee to claim the aforesaid benefit of the right of priority provided by the International convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

Signed: \_\_\_\_\_  
David T. Blaauw

Signed: \_\_\_\_\_  
Dennis M. Sylvester

Signed: Sudhir Kumar Satpathy  
Sudhir Kumar Satpathy

STATE OF \_\_\_\_\_ )  
 ) ss.  
COUNTY OF \_\_\_\_\_ )

On this 14 day of MARCH, 20 12, personally appeared before me David T. Blaauw, to me known to be the persons who executed the above instrument and acknowledged that he executed the same for the uses and purposes therein mentioned.

\_\_\_\_\_  
Notary Public  
My Commission Expires:

STATE OF \_\_\_\_\_ )  
 ) ss.  
COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_, personally appeared before me Dennis M. Sylvester, to me known to be the persons who executed the above instrument and acknowledged that he executed the same for the uses and purposes therein mentioned.

\_\_\_\_\_  
Notary Public  
My Commission Expires:

STATE OF OREGON )  
COUNTY OF Washington ) ss.

On this 14 day of MARCH, 20 \_\_, personally appeared before me Sudhir Kumar Satpathy, to me known to be the persons who executed the above instrument and acknowledged that he executed the same for the uses and purposes therein mentioned.

Dorothy A. Atkins  
Notary Public Dorothy Atkins  
My Commission Expires: Oct. 4, 2013

