PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

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

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------------|----------------|
| Ronald M. Gilgenbach | 10/20/2010 |
| Yue-Ying Lau | 10/20/2010 |
| David M. French | 10/20/2010 |
| Brad W. Hoff | 10/25/2010 |
| Matthew Franzi | 11/02/2010 |
| John Luginsland | 12/03/2010 |

RECEIVING PARTY DATA

| Name: | The Regents of The University of Michigan |
|-------------------|---|
| Street Address: | 1600 Huron Parkway, 2nd floor |
| Internal Address: | Office of Technology Transfer |
| City: | Ann Arbor |
| State/Country: | MICHIGAN |
| Postal Code: | 48109-2590 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 12860336 |

CORRESPONDENCE DATA

Fax Number: (248)689-4071

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 248-689-3500

Email: stevens@reising.com

Correspondent Name: James D. Stevens

Address Line 1: P.O. Box 4390

Address Line 4: Troy, MICHIGAN 48099-4390

ATTORNEY DOCKET NUMBER: 7935-3017-2

PATENT

REEL: 025603 FRAME: 0844

\$40.00 128

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| NAME OF SUBMITTER: | K. Sue Wilson |
|--|---------------|
| Total Attachments: 4 source=Assignment-signed#page1.tif source=Assignment-signed#page2.tif source=Assignment-signed#page3.tif source=Assignment-signed#page4.tif | |

PATENT REEL: 025603 FRAME: 0845

For the sum of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we,

| Ronald M. Gilgenbach Full Name of Assignor # I] | Aldenwood Drive, Ann Arbor, MI 48105 [Residence Address] |
|---|---|
| Yue-Ying Lau , residing at 9012 Ch | erbourg Drive, Potomac, MD 20854 |
| _David M. French, residing at 2737 Ba | rclay Way, Ann Arbor, ML 48105 |
| Brad W. Hoff residing at 701 Step | phen Moody St. SE, #1234, Alburquerque, NM 87123 |
| do hereby assign, sell and set over to: | |
| THE REGENTS OF THE UNIVER | RSITY OF MICHIGAN , located at |
| U-M Technology Transfer Office, 1600 Hu [Assignee's Address] | iron Parkway, Ann Arbor, MI 48109-2590 |
| (hereinafter referred to as Assignee), its successors, a title and interest, domestic and foreign, in and to the for United States Letters patent, entitled: | inventions and discoveries set forth in the application |
| CROSSED FL | ELD DEVICE |
| which can be identified in the United States Patent and | Trademark Office as: |
| U.S. Serial No12/860,336, filedAugu | st 20, 2010 |
| including the right of said Assignee, its successor applications, including original, continuation, and divided said inventions and discoveries in the United States at names, or in our name, at its election, and we her successors, assigns or other legal representatives, a discoveries in all countries. We hereby authorize Assignee the spaces provided above. | isional applications, and to receive Letters Patent for ad in any and all foreign countries in its own name or reby assign, sell and set over to said Assignee, its all rights of priority in and to said inventions and |
| We hereby agree for ourselves, our heirs, successors, and all papers, including applications for Letters Pater to perform any and all acts which said Assignee, its seem necessary to secure thereto the rights herein assignment that we have not granted any rights inconsistent | at of any and all kinds and in any and all countries and successors, assigns or other legal representatives may gned, sold and set over. And we hereby represent and |
| Date: October 20, 2010 | Baldm Filger God |
| This Form should be notarized or otherwise legalized in the space below. | Ronald M. Gilgenbach |
| PAMELA G. DERRY Notary Public, State of Michigan County of Washtenaw My Commission Expires May. 23, 2014 Acting in the County of County | Yue-Ying Lau Mist David M. French |
| | |

For the sum of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we,

| Ronald M. Gilgenbach [Full Name of Assignor #17] | , residing at 3651 Wa | ldenwood Drive, Ann Arbor, MI 48 | 3105 |
|---|---|--|--|
| Yue-Ying Lau | residing at 9012 Che | //Residence Address/ erbourg Drive, Potomac, MD 2085 | , 4 |
| [Full Name of Assignor #2] | | [Residence Address] | |
| David M. French | , residing at 2737 Bard | clay Way, Ann Arbor, MI 48105 | |
| [Full Name of Assignor #3] | | [Residence Address] | |
| Brad W. Hoff [Fill Name of Assignor #4] | , residing at 701 Stepl | hen Moody St. SE, #1234, Alburqu [Residence Address] | jerque, NM 87123 |
| do hereby assign, sell and so | et over to: | | |
| THER | EGENTS OF THE UNIVER: | SITY OF MICHIGAN | , located at |
| | [Full Legal Name of Assig | | |
| U-M Technolog | y Transfer Office, 1600 Huro [Assignee's Address] | on Parkway, Ann Arbor, MI 48109 | -2590 |
| | and foreign, in and to the in | signs or other legal representative ventions and discoveries set forth | |
| | [Patent Application Tide] | | |
| which can be identified in the | e United States Patent and | Гrademark Office as: | |
| U.S. Serial No. 12/860, | 336 , filed Augus | t 20, 2010 , | |
| names, or in our name, at successors, assigns or other discoveries in all countries. the spaces provided above. We hereby agree for ourself and all papers, including app to perform any and all acts deem necessary to secure the | its election, and we herely legal representatives, all We hereby authorize Assignes, our heirs, successors, a plications for Letters Patent which said Assignee, its successor the rights herein assignmented any rights inconsistent | I in any and all foreign countries in by assign, sell and set over to so rights of priority in and to sai gnee to insert the Serial Number assigns or other legal representative of any and all kinds and in any and occessors, assigns or other legal represented, sold and set over. And we here with the rights granted herein. | said Assignee, its id inventions and and Filing Date in wes to execute any d all countries and presentatives may |
| This Form should be notarized or othe | rwise legalized in the space below. | Ronald M. Gilgenbach | |
| Witnessed by 2Lt | Haynes Wood, USAF | | |
| 25 oct 2010 | ea -+ | Yue-Ying Lau | |
| | | | |
| | | David M., French | |
| | | MARIA | |
| | | Brad W. Hoff | |
| | | | |

Return to James D. Stevens at Reising Ethington P.C., PO Box 4390, Troy, Michigan USA 48099-4390

For the sum of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we,

| John Luginsland | , residing at 118 Sc | outhwoods Dr., Ithaca, NY 14850 | |
|--|--|---|----------------------|
| [Full Name of Assignor #1] | | [Residence Address] | |
| Matthew Franzi [Full Name of Assignor #2] | , residing at 42 Cec | dar Way, Chazy, NY 12921 | |
| It an Nume of Assignor #21 | | [Residence Address] | |
| [Full Name of Assignor #3] | , residing at | | |
| , and a standard of the standa | | [Residence Address] | |
| [Full Name of Assignor #4] | , residing at | [Residence Address] | |
| do hereby assign, sell and se | t over to: | [Residence Address] | |
| and the state of t | | | |
| THE RE | EGENTS OF THE UNIVE | RSITY OF MICHIGAN | , located a |
| | [Full Legal Name of : | - • | |
| U-M Technology | Transfer Office, 1600 H | uron Parkway, Ann Arbor, MI 48109- | 2590 |
| | [Assignee's Addres | ss] | |
| (hereinafter referred to as As | ssignee), its successors, | assigns or other legal representatives | s, the entire right, |
| title and interest, domestic ai | nd foreign, in and to the | inventions and discoveries set forth | in the application |
| for United States Letters pate | ent, entitled: | | |
| | | IELD DEVICE | |
| | [Patent Application Ti | • | |
| which can be identified in the | : United States Patent and | d Trademark Office as: | |
| U.S. Serial No. 12/860,33 | 36 . filed Augi | ust 20, 2010 | |
| | | | |
| names, or in our name, at successors, assigns or other | its election, and we her legal representatives, a | nd in any and all foreign countries in reby assign, sell and set over to sa all rights of priority in and to said signee to insert the Serial Number ar | aid Assignce, its |
| and all papers, including appli to perform any and all acts w deem necessary to secure there | ications for Letters Paten which said Assignee, its selection to the rights herein assign | assigns or other legal representative at of any and all kinds and in any and successors, assigns or other legal represent, sold and set over. And we here not with the rights granted herein. | all countries and |
| Date: Nou 2, 201 | 0 | / | |
| This Form should be notarized or otherwi | ise legalized in the space below. | Separate 200 | <u>~</u> |
| | | Can If ex | |
| | | Mathew Franzi | |
| Peggy Jo Gramer, Notal State of Michigan, County of My Commission Expires 12 Acting in the County of A | Washtenaw { 2/1/2014 } | PEGGY TO STA PRINTED NAME POLCY TO SAG | mer NOTARY |

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REEL: 025603 FRAME: 0848

For the sum of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we,

| | , residing at 118 Southwoods Dr., Ithaca. NY 14850 |
|--|--|
| [Full Name of Assignment] | · |
| Matthew Franzi | , residing at 42 Cedar Way, Chazy, NY 12921 |
| | , residing at |
| [Fid] Name of Assignm 4M | [Reddings Address] |
| | , residing at |
| [Pull Name of Assimon W] | ot over to: |
| do hereby assign, sell and se | |
| THE R | REGENTS OF THE UNIVERSITY OF MICHIGAN , located at |
| LLM Tachaolog | y Transfer Office, 1600 Huron Parkway, Ann Arbor, MI 48109-2590 |
| U-IVI Technolog | [Alstiprics's Aildi Chi.] |
| title and interest, domestic s for United States Letters par | Assignee), its successors, assigns or other legal representatives, the entire right, and foreign, in and to the inventions and discoveries set forth in the application tent, entitled: CROSSED FIELD DEVICE [Patent Application Title] |
| titut and the thereford is the | he United States Patent and Trademark Office as: |
| which can be identified in a | the Other States I are and Tradeshow Course as |
| U.S. Serial No. 12/860, | 336 , filed August 20, 2010 , |
| applications, including orig | id Assignee, its successors, assigns or other legal representatives to make in all continuation, and divisional applications, and to receive Letters Patent for the United States and in any and all foreign countries in its own name of the election, and we hereby assign, sell and set over to said Assignee, its |
| applications, including original inventions and discover names, or in our name, a successors, assigns or other discoveries in all countries. | rinal, continuation, and divisional applications, and to receive Letters Patcht to |
| applications, including original said inventions and discover names, or in our name, at successors, assigns or other discoveries in all countries, the spaces provided above. We hereby agree for oursely and all papers, including ap to perform any and all acts does necessary to secure the | rices in the United States and in any and all foreign countries in its own name of its election, and we hereby assign, sell and set over to said Assignee, its er legal representatives, all rights of priority in and to said inventions and We hereby authorize Assignee to insert the Scrial Number and Filing Date in lives, our heirs, successors, assigns or other legal representatives to execute any applications for Letters Patent of any and all kinds and in any and all countries and which said Assignee, its successors, assigns or other legal representatives may hereto the rights herein assigned, sold and set over. And we hereby represent and anted any rights inconsistent with the rights granted herein. |
| applications, including ong said inventions and discover names, or in our name, at successors, assigns or other discoveries in all countries the spaces provided above. We hereby agree for oursel and all papers, including ap to perform any and all acts deem necessary to secure the warrant that we have not grown | ginal, continuation, and divisional applications, and to receive Letters Patent for cries in the United States and in any and all foreign countries in its own name of it its election, and we hereby assign, sell and set over to said Assignee, its er legal representatives, all rights of priority in and to said inventions and. We hereby authorize Assignee to insert the Scrial Number and Filing Date in lives, our heirs, successors, assigns or other legal representatives to execute any applications for Letters Patent of any and all kinds and in any and all countries and which said Assignee, its successors, assigns or other legal representatives may hereto the rights herein assigned, sold and set over. And we hereby represent and anted any rights inconsistent with the rights granted herein. |
| applications, including ong said inventions and discover names, or in our name, at successors, assigns or othe discoveries in all countries, the spaces provided above. We hereby agree for oursel and all papers, including ap to perform any and all acts deem necessary to secure the warrant that we have not ground the spaces of the secure that the spaces of the secure that we have not ground the secure that we have not ground the secure that we have not ground the secure that | ginal, continuation, and divisional applications, and to receive Letters Patent for crics in the United States and in any and all foreign countries in its own name of it its election, and we hereby assign, sell and set over to said Assignee, its er legal representatives, all rights of priority in and to said inventions and. We hereby authorize Assignee to insert the Scrial Number and Filing Date in lives, our heirs, successors, assigns or other legal representatives to execute any applications for Letters Patent of any and all kinds and in any and all countries and which said Assignee, its successors, assigns or other legal representatives may be need the rights herein assigned, sold and set over. And we hereby represent and anted any rights inconsistent with the rights granted herein. |
| applications, including ong said inventions and discover names, or in our name, at successors, assigns or othe discoveries in all countries, the spaces provided above. We hereby agree for oursel and all papers, including ap to perform any and all acts deem necessary to secure the warrant that we have not ground the spaces of the secure that the spaces of the secure that we have not ground the secure that we have not ground the secure that we have not ground the secure that | ginal, continuation, and divisional applications, and to receive Letters Patent for cries in the United States and in any and all foreign countries in its own name of it its election, and we hereby assign, sell and set over to said Assignee, its er legal representatives, all rights of priority in and to said inventions and. We hereby authorize Assignee to insert the Scrial Number and Filing Date in lives, our heirs, successors, assigns or other legal representatives to execute any applications for Letters Patent of any and all kinds and in any and all countries and which said Assignee, its successors, assigns or other legal representatives may hereto the rights herein assigned, sold and set over. And we hereby represent and anted any rights inconsistent with the rights granted herein. |
| applications, including ong said inventions and discover names, or in our name, at successors, assigns or othe discoveries in all countries, the spaces provided above. We hereby agree for oursel and all papers, including ap to perform any and all acts deem necessary to secure the warrant that we have not ground the spaces of the secure that the spaces of the secure that we have not ground the secure that we have not ground the secure that we have not ground the secure that | ginal, continuation, and divisional applications, and to receive Letters Patent for crics in the United States and in any and all foreign countries in its own name of it its election, and we hereby assign, sell and set over to said Assignee, its er legal representatives, all rights of priority in and to said inventions and. We hereby authorize Assignee to insert the Scrial Number and Filing Date in lives, our heirs, successors, assigns or other legal representatives to execute any applications for Letters Patent of any and all kinds and in any and all countries and which said Assignee, its successors, assigns or other legal representatives may be need the rights herein assigned, sold and set over. And we hereby represent and anted any rights inconsistent with the rights granted herein. |
| applications, including original inventions and discovernames, or in our name, at successors, assigns or other discoveries in all countries, the spaces provided above. We hereby agree for oursel and all papers, including ap to perform any and all acts deem necessary to secure the warrant that we have not grow that the spaces of the secure that the secure that the secure that we have not grow that the secure th | ginal, continuation, and divisional applications, and to receive Letters Patent for crics in the United States and in any and all foreign countries in its own name of it its election, and we hereby assign, sell and set over to said Assignee, its er legal representatives, all rights of priority in and to said inventions and. We hereby authorize Assignee to insert the Scrial Number and Filing Date in lives, our heirs, successors, assigns or other legal representatives to execute any applications for Letters Patent of any and all kinds and in any and all countries and which said Assignee, its successors, assigns or other legal representatives may be need the rights herein assigned, sold and set over. And we hereby represent and anted any rights inconsistent with the rights granted herein. |

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RECORDED: 01/09/2011 REEL: 025603 FRAME: 0849