

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT										
NATURE OF CONVEYANCE:	Corrective Assignment to correct the 1) incorrect serial #12/722,342; 2) replace original as nunc pro tunc document effective 04/24/2010; 3) update Assignee address, previously recorded on Reel 024530 Frame 0599. Assignor(s) hereby confirms the Assignment from inventors to The Regents of The University of Michigan.										
CONVEYING PARTY DATA											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>PRAVANSU S. MOHANTY</td><td>12/14/2011</td></tr><tr><td>NICHOLAS ANTON MOROZ</td><td>12/14/2011</td></tr></tbody></table>		Name	Execution Date	PRAVANSU S. MOHANTY	12/14/2011	NICHOLAS ANTON MOROZ	12/14/2011				
Name	Execution Date										
PRAVANSU S. MOHANTY	12/14/2011										
NICHOLAS ANTON MOROZ	12/14/2011										
RECEIVING PARTY DATA											
<table border="1"><tr><td>Name:</td><td>THE REGENTS OF THE UNIVERSITY OF MICHIGAN</td></tr><tr><td>Street Address:</td><td>1600 HURON PARKWAY, 2ND FLOOR</td></tr><tr><td>City:</td><td>ANN ARBOR</td></tr><tr><td>State/Country:</td><td>MICHIGAN</td></tr><tr><td>Postal Code:</td><td>48109-2590</td></tr></table>		Name:	THE REGENTS OF THE UNIVERSITY OF MICHIGAN	Street Address:	1600 HURON PARKWAY, 2ND FLOOR	City:	ANN ARBOR	State/Country:	MICHIGAN	Postal Code:	48109-2590
Name:	THE REGENTS OF THE UNIVERSITY OF MICHIGAN										
Street Address:	1600 HURON PARKWAY, 2ND FLOOR										
City:	ANN ARBOR										
State/Country:	MICHIGAN										
Postal Code:	48109-2590										
PROPERTY NUMBERS Total: 4											
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>61174576</td></tr><tr><td>Application Number:</td><td>61233863</td></tr><tr><td>Application Number:</td><td>12772342</td></tr><tr><td>PCT Number:</td><td>US1033383</td></tr></tbody></table>		Property Type	Number	Application Number:	61174576	Application Number:	61233863	Application Number:	12772342	PCT Number:	US1033383
Property Type	Number										
Application Number:	61174576										
Application Number:	61233863										
Application Number:	12772342										
PCT Number:	US1033383										
CORRESPONDENCE DATA											
Fax Number: (248)641-0270											
Phone: (248) 641-1600											
Email: kgrand@hdp.com											
<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: HARNESS, DICKEY & PIERCE, P.L.C.											
Address Line 1: P.O. BOX 828											
Address Line 4: BLOOMFIELD HILLS, MICHIGAN 48303											

CH \$160.00 61174576

501755770

PATENT
REEL: 027380 FRAME: 0351

ATTORNEY DOCKET NUMBER:	2115-004306/US
NAME OF SUBMITTER:	Kristine Grand
Total Attachments: 6 source=Executed_Corrective_Assignment_2115_004306_US#page1.tif source=Executed_Corrective_Assignment_2115_004306_US#page2.tif source=Assignment_SIGNED#page1.tif source=Assignment_SIGNED#page2.tif source=4306_Cover_Sheet#page1.tif source=4306_Cover_Sheet#page2.tif	

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"><tr><th>Name</th><th>Execution Date</th></tr><tr><td>PRAVANSU S. MOHANTY</td><td>04/24/2010</td></tr><tr><td>NICHOLAS ANTON MOROZ</td><td>04/24/2010</td></tr></table>	Name	Execution Date	PRAVANSU S. MOHANTY	04/24/2010	NICHOLAS ANTON MOROZ	04/24/2010					
Name	Execution Date										
PRAVANSU S. MOHANTY	04/24/2010										
NICHOLAS ANTON MOROZ	04/24/2010										
RECEIVING PARTY DATA											
<table border="1"><tr><td>Name:</td><td>THE REGENTS OF THE UNIVERSITY OF MICHIGAN</td></tr><tr><td>Street Address:</td><td>1214 S. UNIVERSITY AVENUE, 2ND FLOOR</td></tr><tr><td>City:</td><td>ANN ARBOR</td></tr><tr><td>State/Country:</td><td>MICHIGAN</td></tr><tr><td>Postal Code:</td><td>48104-2594</td></tr></table>	Name:	THE REGENTS OF THE UNIVERSITY OF MICHIGAN	Street Address:	1214 S. UNIVERSITY AVENUE, 2ND FLOOR	City:	ANN ARBOR	State/Country:	MICHIGAN	Postal Code:	48104-2594	
Name:	THE REGENTS OF THE UNIVERSITY OF MICHIGAN										
Street Address:	1214 S. UNIVERSITY AVENUE, 2ND FLOOR										
City:	ANN ARBOR										
State/Country:	MICHIGAN										
Postal Code:	48104-2594										
PROPERTY NUMBERS Total: 1											
<table border="1"><tr><th>Property Type</th><th>Number</th></tr><tr><td>Application Number:</td><td>12772342</td></tr></table>	Property Type	Number	Application Number:	12772342							
Property Type	Number										
Application Number:	12772342										
CORRESPONDENCE DATA											
Fax Number: (248)641-0270 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone: 248-641-1600											
Email: kmckechnie@hdp.com											
Correspondent Name: HARNESS, DICKEY & PIERCE, P.L.C.											
Address Line 1: P.O. BOX 828											
Address Line 4: BLOOMFIELD HILLS, MICHIGAN 48303											
ATTORNEY DOCKET NUMBER:	2115-004306/US										
NAME OF SUBMITTER:	Krystine A. McKechnie										

PATENT

REEL: 027380 FRAME: 0353

Signature:	/Krystine A. McKechnie/
Date:	06/14/2010
Total Attachments: 2 source=Assignment_SIGNED#page1.tif source=Assignment_SIGNED#page2.tif	
RECEIPT INFORMATION EPAS ID: PAT1226714 Receipt Date: 06/14/2010 Fee Amount: \$40	

PATENT**REEL: 027380 FRAME: 0354**

CORRECTIVE ASSIGNMENT

WHEREAS, the undersigned, hereinafter referred to collectively as Assignor, has invented:

IN-SITU PLASMA/LASER HYBRID SCHEME

for which Assignor is about to make or has made United States or International application for patent

- (a) U.S. Provisional Patent Application No. 61/174,576, filed on May 1, 2009;
- (b) U.S. Provisional Patent Application No. 61/233,863, filed on August 14, 2009;
- (c) U.S. Patent Application No. ~~12/722,342~~12/772,342, filed on May 3, 2010; and
- (d) PCT International Application No. PCT/US2010/033383, filed on May 3, 2010; and

WHEREAS, The Regents of The University of Michigan, 1600 Huron Parkway, 2nd Floor, Ann Arbor, Michigan 48109-2590, hereinafter referred to as Assignee, is desirous of acquiring Assignor's interest therein:

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy whereof is hereby acknowledged, Assignor agrees to, and hereby does, sell, assign and transfer unto Assignee and its successors in interest, the full and exclusive right, title and interest in the United States of America and throughout the world, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, to the invention as described in the aforesaid application and all United States Letters Patent which may be granted therefore, and all divisions, continuations, reissues, reexaminations and extensions thereof, these rights, title and interest to be held and enjoyed by Assignee to the full end of the term for which the Letters Patent are granted and any extensions thereof as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made, and the right to sue for, and recover for past infringements of, or liabilities for, any of the rights relating to any of the applications or patents resulting therefrom;

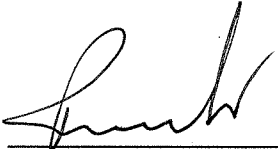
Assignor hereby covenants and agrees to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, and as to letters patent any reissue, re-examination, or extension thereof, and for litigation regarding, or for the purpose of protecting title and to the said invention, the United States application for patent, or Letters Patent therefor, and to testify in support thereof, for the benefit of Assignee without further or other compensation than that above set forth;

Assignor hereby covenants that no assignment, sale, license, agreement or encumbrance has been or will be entered into which would conflict with this Assignment; and

Assignor hereby requests the United States Patent and Trademark Office to issue the Letters Patent of the United States of America to Assignee, and requests that any official of any country or countries foreign to the United States, whose duty it is to issue or grant patents and applications as aforesaid, to issue the Letters Patent, Utility Model Registration or Inventor's Certificate to Assignee.

The undersigned hereby grant(s) the law firm of Harness, Dickey & Pierce, P.L.C. the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, the parties have caused this ASSIGNMENT *NUNC PRO TUNC* to be effective as of April 24, 2010.

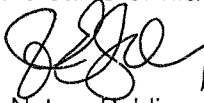


PRAVANSU S. MOHANTY

ASSIGNMENT

State of Michigan)
County of Wayne) ss.

On this 14th day of December, 2011, before me personally appeared the foregoing individual, who executed the foregoing instrument and who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.


Notary Public,

JEANNINE E. SADLER
NOTARY PUBLIC, STATE OF MI
COUNTY OF WAYNE
MY COMMISSION EXPIRES Mar 2, 2015
ACTING IN COUNTY OF Wayne

(seal)

Acting in the County Of Wayne

State Of Michigan

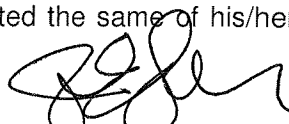
My Commission Expires
March 2, 2015



NICHOLAS ANTON MOROZ

State of Michigan)
County of Wayne) ss.

On this 14 day of December, 2011, before me personally appeared the foregoing individual, who executed the foregoing instrument and who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.


Notary Public,

JEANNINE E. SADLER
NOTARY PUBLIC, STATE OF MI
COUNTY OF WAYNE
MY COMMISSION EXPIRES Mar 2, 2015
ACTING IN COUNTY OF Wayne

(seal)

Acting in the County Of Wayne

State Of Michigan

My Commission Expires
March 2, 2015

16413131.1

ASSIGNMENT

WHEREAS, the undersigned, hereinafter referred to collectively as Assignor, has invented:

IN-SITU PLASMA/LASER HYBRID SCHEME

for which Assignor is about to make or has made United States or International application for patent

- (a) ☐ executed on even date preparatory to filing (each inventor should sign this Assignment on the same day as he/she signs the Declaration);
- (b) ☐ executed on _____, _____, or _____;
- (c) ☒ filed on MAY 3, 2010, and assigned Serial No. 12/722,342 or PCT International Application No. _____, and _____;

WHEREAS, The Regents of The University of Michigan, 1214 S. University Avenue, 2nd Floor, Ann Arbor, Michigan 48104-2594, hereinafter referred to as Assignee, is desirous of acquiring all right, title, and interest therein:

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy whereof is hereby acknowledged, Assignor hereby confirms any prior assignment to Assignee, and to the extent that Assignor has not already done so, agrees to assign, and hereby does, sell, assign and transfer unto Assignee and its successors in interest, the full and exclusive right, title and interest in the United States of America and throughout the world, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, to the inventions as described in the aforesaid application, to the aforesaid application itself, and all divisions, continuations, continuations-in-part, or other applications claiming priority directly or indirectly from the aforesaid application, and any United States or foreign Letters Patent, utility model, or other similar rights which may be granted thereon, including reissues, reexaminations and extensions thereof, and all copyright rights throughout the world in the aforesaid application and the subject matter disclosed therein, these rights, title and interest to be held and enjoyed by Assignee to the full end of the term for which the Letters Patent, utility model, or other similar rights, are granted and any extensions thereof as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made, and the right to sue for, and recover for past infringements of, or liabilities for, any of the rights relating to any of the applications, patents, utility models, or other similar rights, resulting therefrom, and the copyright rights;


Assignor hereby covenants and agrees to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent, utility model, or other similar rights, and for copyright, in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, and as to letters patent any reissue, re-examination, or extension thereof, and for litigation regarding, or for the purpose of protecting title and to the said invention, the United States application for patent, or Letters Patent therefor, and to testify in support thereof, for the benefit of Assignee without further or other compensation than that above set forth;

Assignor hereby covenants that no assignment, sale, license, agreement or encumbrance has been or will be entered into which would conflict with this Assignment; and

Assignor hereby requests the United States Patent and Trademark Office to issue the Letters Patent of the United States of America to Assignee; and requests that any official of any country or countries foreign to the United States, whose duty it is to issue or grant patents and applications as aforesaid, to issue the Letters Patent, Utility Model Registration or other similar right to Assignee.

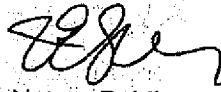
The undersigned hereby grant(s) the law firm of Harness, Dickey & Pierce, P.L.C. the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

ASSIGNMENT


PRAVANSU S. MOHANTY

State of Michigan)
County of Wayne) ss.

On this 24th day of April, 2010, before me personally appeared the foregoing individual, who executed the foregoing instrument and who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.


Notary Public,

JEANNINE E. SADLER
NOTARY PUBLIC, STATE OF MI
COUNTY OF WAYNE
MY COMMISSION EXPIRES Mar 2, 2015
ACTING IN COUNTY OF Wayne

(seal)

Acting in the County Of Wayne

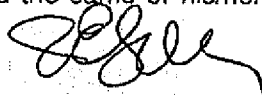
State Of Michigan

My Commission Expires March 2, 2015


NICHOLAS ANTON MOROZ

State of Michigan)
County of Wayne) ss.

On this 24th day of April, 2010, before me personally appeared the foregoing individual, who executed the foregoing instrument and who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.


Notary Public,

JEANNINE E. SADLER
NOTARY PUBLIC, STATE OF MI
COUNTY OF WAYNE
MY COMMISSION EXPIRES Mar 2, 2015
ACTING IN COUNTY OF Wayne

(seal)

Acting in the County Of Wayne

State Of Michigan

My Commission Expires March 2, 2015

15504973.1