

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

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>Emad S. Ebbini</td> <td>12/10/2012</td> </tr> <tr> <td>Andrew J. Casper</td> <td>12/11/2012</td> </tr> <tr> <td>Dalong Liu</td> <td>12/07/2012</td> </tr> <tr> <td>John R. Ballard</td> <td>12/07/2012</td> </tr> </tbody> </table>		Name	Execution Date	Emad S. Ebbini	12/10/2012	Andrew J. Casper	12/11/2012	Dalong Liu	12/07/2012	John R. Ballard	12/07/2012		
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RECEIVING PARTY DATA													
<table border="1"> <tr> <td>Name:</td> <td>Regents of the University of Minnesota</td> </tr> <tr> <td>Street Address:</td> <td>1000 Westgate Drive</td> </tr> <tr> <td>Internal Address:</td> <td>Suite 160</td> </tr> <tr> <td>City:</td> <td>Saint Paul</td> </tr> <tr> <td>State/Country:</td> <td>MINNESOTA</td> </tr> <tr> <td>Postal Code:</td> <td>55114-8658</td> </tr> </table>		Name:	Regents of the University of Minnesota	Street Address:	1000 Westgate Drive	Internal Address:	Suite 160	City:	Saint Paul	State/Country:	MINNESOTA	Postal Code:	55114-8658
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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>13702813</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13702813								
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CORRESPONDENCE DATA													
<p>Fax Number: 6123051228 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 612-305-1220</p> <p>Email: sdombroske@mrgiplaw.com</p> <p>Correspondent Name: Mark J. Gebhardt</p> <p>Address Line 1: P.O. Box 581336</p> <p>Address Line 4: Minneapolis, MINNESOTA 55458-1336</p>													
ATTORNEY DOCKET NUMBER:	110.03480101												
NAME OF SUBMITTER:	Mark J. Gebhardt												
Total Attachments: 9													

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ASSIGNMENT

Whereas We, Emad S. Ebbini, Andrew J. Casper, Dalong Liu, and John R. Ballard, with residences and citizenships as indicated below; have made an invention in

**DUAL MODE ULTRASOUND TRANSDUCER (DMUT) SYSTEM AND METHOD
FOR CONTROLLING DELIVERY OF ULTRASOUND THERAPY**

PCT International Application No. PCT/US2011/039837
U.S. Provisional Patent Application No. 61/353,096

International Filing Date: 9 June 2011
Filing Date: 9 June 2010

Now, therefore, for good and valuable consideration, receipt of which is acknowledged, we have individually and jointly agreed to assign and transfer and do hereby assign and transfer unto Regents of the University of Minnesota ("Company"), a corporation of Minnesota, having its principal office at 1000 Westgate Drive, Suite 160, Saint Paul, Minnesota 55114-8658, its successors and assigns, the entire right, title, and interest in and to said invention and application, and in and to any division or continuation (in whole or in part) of said application, and in and to any and all improvements in said invention made by us or any of us or made jointly with others (provided any such improvement is made during, or within one year after the termination of, the employment by the Company of whichever of us, solely or jointly with one or more others, has made the same), and in and to any and all Patents, reexaminations, reissues, or extensions thereof, of the United States of America and countries foreign thereto (including the right to apply for Patents, Utility Models, or Inventors' Certificates in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), which have been or may be granted thereon or on any continued prosecution application, divisional, continuation (in whole or in part), renewal, reexamination, reissue, or other or further application based in whole or in part upon said invention or improvements thereon, to be held and enjoyed as fully and exclusively as they would have been by us or any of us had this assignment and transfer not been made;

We do further agree for ourselves and for our heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as we lawfully may, that may be deemed necessary by the Company, its successors, assigns, and nominees, fully to secure its right, title, and interest as aforesaid and to obtain or maintain Patents, Utility Models, or Inventors' Certificates in any and all countries;

Assignment


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Int'l Appln. No. PCT/US2011/039837

Int'l Filing Date: 9 June 2011

For: **DUAL MODE ULTRASOUND TRANSDUCER (DMUT) SYSTEM AND METHOD FOR CONTROLLING DELIVERY OF ULTRASOUND THERAPY**

In witness whereof, we have hereunto signed our names on the days and years set forth below.


Name: Emad S. Ebbini

Date

12/10/2012

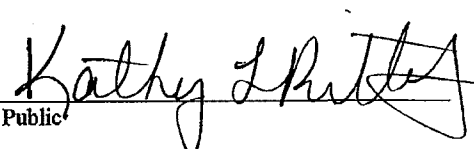
Address: 6633 Southcrest Drive, Edina, Minnesota 55435

Citizenship: Jordan

STATE OF Minnesota)

COUNTY OF Hennepin) ss.

On this 10th day of December, 2012, before me personally appeared Emad S. Ebbini, to me known to be the person described in and who executed the foregoing instrument, and he/she executed the same for the uses and purposes therein set forth.


Notary Public



Name: Andrew J. Casper

Date

Address: 3661 Cummings Ave., Eau Claire, Wisconsin 54701

Citizenship: US

STATE OF _____)

COUNTY OF _____) ss.

On this _____ day of _____, 2012, before me personally appeared Andrew J. Casper, to me known to be the person described in and who executed the foregoing instrument, and he/she executed the same for the uses and purposes therein set forth.

Notary Public

PATENT

REEL: 029607 FRAME: 0669

Assignment

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Int'l Appln. No. PCT/US2011/039837

Int'l Filing Date: 9 June 2011

For: DUAL MODE ULTRASOUND TRANSDUCER (DMUT) SYSTEM AND METHOD FOR CONTROLLING DELIVERY OF ULTRASOUND THERAPY

Name: Dalong Liu
Address: 1200 Ray Place, Saint Paul, Minnesota 55108
Citizenship: China

Date

STATE OF _____)
) ss.
COUNTY OF _____)

On this _____ day of _____, 2012, before me personally appeared Dalong Liu, to me known to be the person described in and who executed the foregoing instrument, and he/she executed the same for the uses and purposes therein set forth.

Notary Public

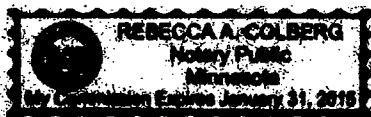
John R. Ballard
Name: John R. Ballard
Address: 8660 Hillview Dr. E, Saint Bonifacius, Minnesota 55375
Citizenship: US

Date

STATE OF Minnesota)
) ss.
COUNTY OF Ramsey)

On this 7th day of December, 2012, before me personally appeared John R. Ballard, to me known to be the person described in and who executed the foregoing instrument, and he/she executed the same for the uses and purposes therein set forth.

Rebecca A. Colberg
Notary Public



PATENT

REEL: 029607 FRAME: 0670

ASSIGNMENT

Whereas We, Emad S. Ebbini, Andrew J. Casper, Dalong Liu, and John R. Ballard, with residences and citizenships as indicated below; have made an invention in

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We do further agree for ourselves and for our heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as we lawfully may, that may be deemed necessary by the Company, its successors, assigns, and nominees, fully to secure its right, title, and interest as aforesaid and to obtain or maintain Patents, Utility Models, or Inventors' Certificates in any and all countries;

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For: DUAL MODE ULTRASOUND TRANSDUCER (DMUT) SYSTEM AND METHOD FOR CONTROLLING DELIVERY OF ULTRASOUND THERAPY

In witness whereof, we have hereunto signed our names on the days and years set forth below.

Name: Emad S. Ebbini

Date

Address: 6633 Southcrest Drive, Edina, Minnesota 55435

Citizenship: Jordan

STATE OF _____)
) ss.
COUNTY OF _____)

On this _____ day of _____, 2012, before me personally appeared Emad S. Ebbini, to me known to be the person described in and who executed the foregoing instrument, and he/she executed the same for the uses and purposes therein set forth.

Notary Public

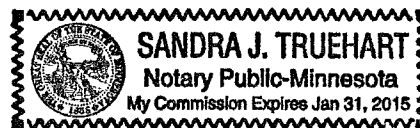
Andrew J. Casper
Name: Andrew J. Casper
Address: 3661 Cummings Ave., Eau Claire, Wisconsin 54701
Citizenship: US

12-11-2012
Date

STATE OF Minnesota)
) ss.
COUNTY OF Hennepin)

On this 11 day of December, 2012, before me personally appeared Andrew J. Casper, to me known to be the person described in and who executed the foregoing instrument, and he/she executed the same for the uses and purposes therein set forth.

Sandra J. Truehart
Notary Public



Assignment

Page 3 of 3

Int'l Appln. No. PCT/US2011/039837

Int'l Filing Date: 9 June 2011

For: DUAL MODE ULTRASOUND TRANSDUCER (DMUT) SYSTEM AND METHOD FOR CONTROLLING DELIVERY OF ULTRASOUND THERAPY

Name: Dalong Liu

Date

Address: 1200 Ray Place, Saint Paul, Minnesota 55108

Citizenship: China

STATE OF _____)
) ss.
COUNTY OF _____)

On this _____ day of _____, 2012, before me personally appeared Dalong Liu, to me known to be the person described in and who executed the foregoing instrument, and he/she executed the same for the uses and purposes therein set forth.

Notary Public

Name: John R. Ballard

Date

Address: 8660 Hillview Dr. E, Saint Bonifacius, Minnesota 55375

Citizenship: US

STATE OF _____)
) ss.
COUNTY OF _____)

On this _____ day of _____, 2012, before me personally appeared John R. Ballard, to me known to be the person described in and who executed the foregoing instrument, and he/she executed the same for the uses and purposes therein set forth.

Notary Public

ASSIGNMENT

Whereas We, Erned S. Ebbini, Andrew J. Casper, Dulong Lin, and John R. Ballard, with residences and citizenships as indicated below; have made an invention in

**DUAL MODE ULTRASOUND TRANSDUCER (DMUT) SYSTEM AND METHOD
FOR CONTROLLING DELIVERY OF ULTRASOUND THERAPY**

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U.S. Provisional Patent Application No. 61/333,096

International Filing Date: 9 June 2011
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We do further agree for ourselves and for our heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as we lawfully may, that may be deemed necessary by the Company, its successors, assigns, and nominees, fully to secure its right, title, and interest as aforesaid and to obtain or maintain Patents, Utility Models, or Inventors'

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Inv't Appl. No. PCT/US2011/039837

Inv't Filing Date: 9 June 2011

For: DUAL MODE ULTRASOUND TRANSDUCER (DMUT) SYSTEM AND METHOD FOR CONTROLLING DELIVERY OF ULTRASOUND THERAPY

In witness whereof, we have herunto signed our names on the days and years set forth below.

Name: Ehsan S. Ebbini
Address: 6433 Southeast Drive, Edina, Minnesota 55435
Citizenship: Jordan

Date

STATE OF _____)
) ss.
COUNTY OF _____)

On this _____ day of _____, 2012, before me personally appeared Ehsan S. Ebbini, to me known to be the person described in and who executed the foregoing instrument, and he/she executed the same for the uses and purposes therein set forth.

Notary Public

Name: Andrew J. Casper
Address: 3461 Cummings Ave., Eau Claire, Wisconsin 54701
Citizenship: US

Date

STATE OF _____)
) ss.
COUNTY OF _____)

On this _____ day of _____, 2012, before me personally appeared Andrew J. Casper, to me known to be the person described in and who executed the foregoing instrument, and he/she executed the same for the uses and purposes therein set forth.

Notary Public

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REEL: 029607 FRAME: 0675

Assignment

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Int'l Appl. No. PCT/US2011/039837

Int'l Filing Date: 9 June 2011

For: DUAL MODE ULTRASOUND TRANSDUCER (DMUT) SYSTEM AND METHOD FOR CONTROLLING DELIVERY OF ULTRASOUND THERAPY

Daling Li
Name: Daling Li
Address: 1200 Ray Place, Saint Paul, Minnesota 55108
Citizenship: China

12/07/2012
Date

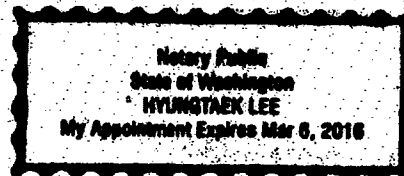
Address: 548 Front St S, Apt 1, Issaquah, WA 98027

STATE OF Washington)
COUNTY OF King) ss.

DL
12/07/2012

On this 7th day of December, 2012, before me personally appeared Daling Li, to me known to be the person described in and who executed the foregoing instrument, and he/she executed the same for the uses and purposes therein set forth.

[Signature]
Notary Public



Name: John R. Ballard
Address: 8660 Hillview Dr. E, Saint Bonifacius, Minnesota 55375
Citizenship: US

Date

STATE OF _____)
COUNTY OF _____) ss.

On this _____ day of _____, 2012, before me personally appeared John R. Ballard, to me known to be the person described in and who executed the foregoing instrument, and he/she executed the same for the uses and purposes therein set forth.

Notary Public