

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:

NEW ASSIGNMENT

NATURE OF CONVEYANCE:

ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Arjun G. Yodh	06/27/2005
Joel H. Greenberg	05/28/2005
Guoqiang Yu	06/02/2005
John A. Detre	06/06/2005
Turgut Durduran	07/05/2005
Mark G. Burnett	05/24/2005
Emile R. Mohler III	05/26/2005
Harry Quon	05/20/2005
Stephen M. Hahn	09/13/2005

RECEIVING PARTY DATA

Name:	The Trustees Of The University Of Pennsylvania
Street Address:	3160 Chestnut Street
Internal Address:	Suite 200
City:	Philadelphia
State/Country:	PENNSYLVANIA
Postal Code:	19103

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	11106390

CORRESPONDENCE DATA

Fax Number: (215)568-3439

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

Phone: 215-568-3100

Email: fpoore@woodcock.com

Correspondent Name: Woodcock Washburn, LLP

Address Line 1: One Liberty Place

CH \$40.00 11106390

500066129

PATENT
REEL: 016906 FRAME: 0031

Address Line 2:	46th Floor
Address Line 4:	Philadelphia, PENNSYLVANIA 19103

ATTORNEY DOCKET NUMBER:	UPN-4560
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NAME OF SUBMITTER:	Faith A. Poore
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Total Attachments: 10
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ASSIGNMENT

WHEREAS, we Arjun G. Yodh residing at 231 Valley Road, Merion, Pennsylvania 19066, Joel H. Greenberg residing at 1462 Brandywine Lane, Wayne, Pennsylvania 19087, Guoqiang Yu residing at 418 Willow Court, Flemington, New Jersey 08822, John A. Detre residing at 10 Hathaway Court, Wynnewood, Pennsylvania 19096, Turgut Durduran residing at 250 Beverly Boulevard, Apt. D15, Upper Darby, Pennsylvania 19082, Mark G. Burnett residing at 237 South 18th Street, Apt. 7C, Philadelphia, Pennsylvania 19103, Emile R. Mohler III residing at 134 Woods Lane, Radnor, Pennsylvania 19087, Harry Quon residing at 116 West Rose Valley Road, Rose Valley, Pennsylvania 19086, and Stephen M. Hahn, residing at 21 Sweetbriar Lane, Glen Mills, Pennsylvania 19342-4283, hereinafter referred to as the assignors, are the joint inventors of certain inventions or improvements for which we have made application for Letters Patent to the United States, identified as Application No. 11/106,390, filed April 13, 2005, entitled **OPTICAL MEASUREMENT OF TISSUE BLOOD FLOW, HEMODYNAMICS AND OXYGENATION**; and

WHEREAS, The Trustees Of The University Of Pennsylvania, hereinafter referred to as the assignee, of 3160 Chestnut Street, Suite 200, Philadelphia, PA 19103, a university of higher education in Pennsylvania, is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, and intending to be legally bound hereby, we, the said assignors, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over to said assignee, the entire right, title and interest in and to said inventions or improvements and said application and any and all continuations, divisions and renewals of and substitutes for said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, including the full right to sue for and collect damages for past violations of provisional rights having arisen from any publication of said application or any continuations, divisions, or renewals of or substitutes for said application. We further assign to and authorize said assignee, to file in our names applications for Letters Patent in all countries, the same to be held and enjoyed by said assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

AND we hereby covenant that we have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we will each time request is made and

without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said application and said Letters Patent to said assignee, its successors, assigns, nominees, or legal representatives, and each of us agrees to communicate to said assignee or to its nominee all known facts respecting said inventions or improvements, said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries.

AND we hereby authorize and request the Commissioner of Patents and Trademarks 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 to said assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

AND this Assignment may be executed in multiple counterparts, each of which shall be deemed to be an original of this Assignment. Additionally, we hereby authorize our attorneys to collect the signature pages of each executed counterpart and to attach those signature pages to a single copy of this instrument, which single copy and attached signature pages together shall constitute an original of this Assignment.

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

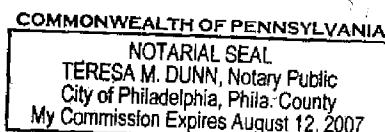
6/27/05
Date

Arjun G. Yodh (L.S.)
Arjun G. Yodh

STATE OF Pennsylvania :
COUNTY OF Philadelphia : SS

On this 27 day of June, year of 2005, before me personally came the above named Arjun G. Yodh to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

[Signature]
Notary Public



DOCKET NO.: UPN-4560 / Q3519

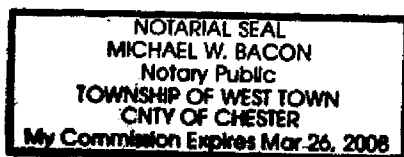
PATENT
Joint Inventors
(Pending Application;
Application No. Known)

5/28/2005
Date

Joel H. Greenberg (L.S.)
Joel H. Greenberg

STATE OF PA :
COUNTY OF CHESTER : SS

On this 28 day of May, year of 2005, before me personally came the above named Joel H. Greenberg to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.



Michael W. Bacon
Notary Public

DOCKET NO.: UPN-4560 / Q3519

PATENT
Joint Inventors
(Pending Application;
Application No. Known)

06/02/2005
Date

Guoqiang Yu (L.S.)
Guoqiang Yu

STATE OF Pennsylvania
COUNTY OF Philadelphia ss

On this 2 day of June, year of 2005, before me personally came the above named Guoqiang Yu to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

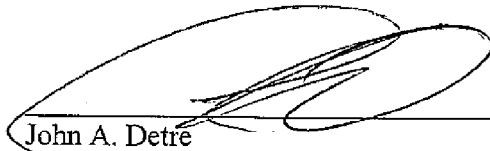
Teresa M. Dunn
Notary Public

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
TERESA M. DUNN, Notary Public
City of Philadelphia, Phila. County
My Commission Expires August 12, 2007

DOCKET NO.: UPN-4560 / Q3519

PATENT
Joint Inventors
(Pending Application;
Application No. Known)

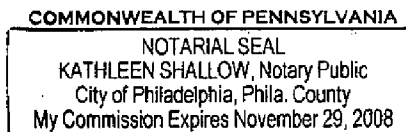
6/6/05
Date


John A. Detre (L.S.)

STATE OF Pennsylvania
COUNTY OF Philadelphia SS

On this 6 day of June, year of 2005, before me personally came the above named John A. Detre to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.


Notary Public

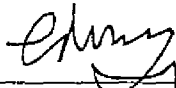


DOCKET NO.: UPN-4560 / Q3519

PATENT
Joint Inventors
(Pending Application;
Application No. Known)

7/5/05

Date



Turgut Durduran

(L.S.)

STATE OF Pennsylvania:
COUNTY OF Philadelphia: SS

On this 5 day of July, year of 2005, before me personally came the above named Turgut Durduran to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.


Notary Public

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
TERESA M. DUNN, Notary Public
City of Philadelphia, Phila: County
My Commission Expires August 12, 2007

DOCKET NO.: UPN-4560 / Q3519

PATENT
Joint Inventors
(Pending Application;
Application No. Known)

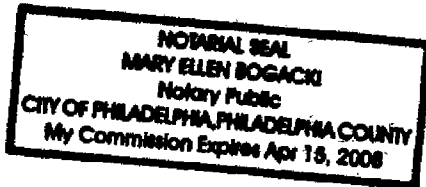
5/24/05
Date

[Signature] (L.S.)
Mark G. Burnett

STATE OF Pennsylvania
COUNTY OF Philadelphia SS

On this 24 day of May, year of 2005, before me personally came the above named Mark G. Burnett to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

[Signature]
Notary Public



DOCKET NO.: UPN-4560 / Q3519

PATENT
Joint Inventors
(Pending Application;
Application No. Known)

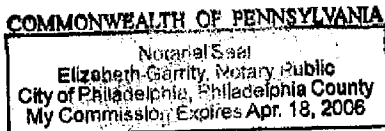
5/26/05
Date

Emile R. Mohler III (L.S.)
Emile R. Mohler III

STATE OF PENNSYLVANIA :
COUNTY OF PHILADELPHIA : SS

On this 26 day of May, year of 2005, before me personally came the above named Emile R. Mohler III to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

Elizabeth Garrity
Notary Public



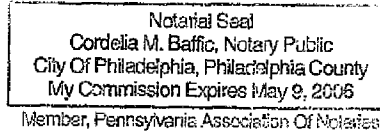
DOCKET NO.: UPN-4560 / Q3519

PATENT
Joint Inventors
(Pending Application;
Application No. Known)

5/20/05
Date

Harry Quon (L.S.)

STATE OF Pennsylvania :
COUNTY OF Philadelphia : SS



On this 20 day of May, year of 2005, before me personally came the above named Harry Quon to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

Cordelia M. Baffic
Notary Public



DOCKET NO.: UPN-4560 / Q3519

PATENT
Joint Inventors
(Pending Application;
Application No. Known)

9/13/05
Date

[Signature] (L.S.)
Stephen M. Hahn

STATE OF Pennsylvania :
COUNTY OF Philadelphia SS

On this 13 day of Sept., year of 2005, before me personally came the above named Stephen M. Hahn to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

[Signature]
Notary Public

