

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT										
NATURE OF CONVEYANCE:	Corrective Assignment to correct the the Assignors by deleting Takashi Ichihara as an Assignor, previously recorded on Reel 024728 Frame 0807. Assignor(s) hereby confirms the Assignment from Albert C. Lardo, Richard T. George, Joao A.C. Lima and Eduardo Marban to The Johns Hopkins University.										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Albert Clark Lardo</td> <td>07/21/2010</td> </tr> <tr> <td>Richard T. George</td> <td>07/21/2010</td> </tr> <tr> <td>Joao A.C. Lima</td> <td>07/21/2010</td> </tr> <tr> <td>Eduardo Marban</td> <td>07/09/2010</td> </tr> </tbody> </table>		Name	Execution Date	Albert Clark Lardo	07/21/2010	Richard T. George	07/21/2010	Joao A.C. Lima	07/21/2010	Eduardo Marban	07/09/2010
Name	Execution Date										
Albert Clark Lardo	07/21/2010										
Richard T. George	07/21/2010										
Joao A.C. Lima	07/21/2010										
Eduardo Marban	07/09/2010										
RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>The Johns Hopkins University</td> </tr> <tr> <td>Street Address:</td> <td>3400 N. Charles Street</td> </tr> <tr> <td>City:</td> <td>Baltimore</td> </tr> <tr> <td>State/Country:</td> <td>MARYLAND</td> </tr> <tr> <td>Postal Code:</td> <td>21218</td> </tr> </table>		Name:	The Johns Hopkins University	Street Address:	3400 N. Charles Street	City:	Baltimore	State/Country:	MARYLAND	Postal Code:	21218
Name:	The Johns Hopkins University										
Street Address:	3400 N. Charles Street										
City:	Baltimore										
State/Country:	MARYLAND										
Postal Code:	21218										
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>12680152</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12680152						
Property Type	Number										
Application Number:	12680152										
CORRESPONDENCE DATA											
<p>Fax Number: (202)344-8300 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 202 3444000 Email: elwright@venable.com Correspondent Name: Henry J. Daley Address Line 1: 575 7th Street, N.W. Address Line 4: Washington, DISTRICT OF COLUMBIA 20004</p>											
ATTORNEY DOCKET NUMBER:	02240-285531										
NAME OF SUBMITTER:	Henry J. Daley (Reg. No. 42,459)										

CH \$40.00 12680152

501246485

PATENT
REEL: 024756 FRAME: 0520

Total Attachments: 8

source=ASSIGNMENT#page1.tif

source=ASSIGNMENT#page2.tif

source=ASSIGNMENT#page3.tif

source=ASSIGNMENT#page4.tif

source=ASSIGNMENT#page5.tif

source=ASSIGNMENT#page6.tif

source=ASSIGNMENT#page7.tif

source=ASSIGNMENT#page8.tif



UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE



501241037A

JULY 23, 2010

PTAS

HENRY J. DALEY
575 7TH STREET, N.W.
WASHINGTON, DC 20004

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 07/22/2010

REEL/FRAME: 024728/0807
NUMBER OF PAGES: 8

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).
DOCKET NUMBER: 02240-285531

ASSIGNOR:

LARDO, ALBERT CLARK

DOC DATE: 07/21/2010

ASSIGNOR:

GEORGE, RICHARD T.

DOC DATE: 07/21/2010

ASSIGNOR:

LIMA, JOAO A.C.

DOC DATE: 07/21/2010

ASSIGNOR:

MARBAN, EDUARDO

DOC DATE: 07/09/2010

ASSIGNOR:

ICHIHARA, TAKASHI

DOC DATE: 06/02/2010

021/28/080/ PAGE 2

ASSIGNEE:

THE JOHNS HOPKINS UNIVERSITY
3400 N. CHARLES STREET
BALTIMORE, MARYLAND 21218

SERIAL NUMBER: 12680152

FILING DATE:

PATENT NUMBER:

ISSUE DATE:

TITLE: COMBINED MULTI-DETECTOR CT ANGIOGRAPHY AND CT MYOCARDIAL PERFUSION
IMAGING FOR THE DIAGNOSIS OF CORONARY ARTERY DISEASE

ASSIGNMENT SERVICES BRANCH
PUBLIC RECORDS DIVISION

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

07/22/2010
 501241037

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Albert Clark Lardo	07/21/2010
Richard T. George	07/21/2010
Joao A.C. Lima	07/21/2010
Eduardo Marban	07/09/2010
Takashi Ichihara	06/02/2010
RECEIVING PARTY DATA	
Name:	The Johns Hopkins University
Street Address:	3400 N. Charles Street
City:	Baltimore
State/Country:	MARYLAND
Postal Code:	21218
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	12680152
CORRESPONDENCE DATA	
Fax Number:	(202)344-8300
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	202 3444000
Email:	ELWRIGHT@VENABLE.COM
Correspondent Name:	Henry J. Daley
Address Line 1:	575 7th Street, N.W.
Address Line 4:	Washington, DISTRICT OF COLUMBIA 20004
ATTORNEY DOCKET NUMBER:	02240-285531
NAME OF SUBMITTER:	Henry J. Daley (Reg. No. 42,459)

CH \$40.00 12680152

Total Attachments: 6

source=ASSIGNMENT#page1.tif

source=ASSIGNMENT#page2.tif

source=ASSIGNMENT#page3.tif

source=ASSIGNMENT#page4.tif

source=ASSIGNMENT#page5.tif

source=ASSIGNMENT#page6.tif

WORLDWIDE ASSIGNMENT

WHEREAS, Albert Clark LARDO, Richard T. GEORGE, Joao A.C. LIMA, and Eduardo T. MARBAN, hereinafter (collectively) referred to as the Assignor, have invented a certain improvement relating to **COMBINED MULTI-DETECTOR CT ANGIOGRAPHY AND CT MYOCARDIAL PERFUSION IMAGING FOR THE DIAGNOSIS OF CORONARY ARTERY DISEASE**, for which said Assignor has caused an application for United States Letters Patent to be prepared,

[] the inventor's declaration for said application being executed concurrently with the execution of this instrument; said application to be filed in the U.S. Patent and Trademark Office;

[x] said application having been filed in the U.S. Patent and Trademark Office on March 25, 2010 and given Application No. 12/680,152;

[X] said application having been filed under the Patent Cooperation Treaty on September 29, 2008 and given International Application No. PCT/US2008/011265, the United States of America having been designated.

WHEREAS, **The Johns Hopkins University**, having a principal place of business located at **3400 North Charles Street, Baltimore, Maryland 21218**, hereinafter referred to as the Assignee, is desirous of acquiring the entire right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefore, including any and all renewals, reissues and prolongations thereof;

NOW THIS WITNESSETH, that for and in consideration of One Dollar (\$1.00), and other good and valuable consideration paid by Assignee to Assignor, the receipt and sufficiency of which is hereby acknowledged, Assignor hereby assigns, sells and transfers, and has assigned, sold, and transferred to Assignee, its successors and assigns, the entire and exclusive right, title, and interest for the United States in and to the invention, the application, any non-provisional application, and any patents which may be granted therefor, including any and all divisions, continuations, in whole or in part, substitutions, renewals, reissues, reexaminations, and extensions thereof, and all applications claiming priority therefrom; and Assignor authorizes and requests the Commissioner of Patents and Trademarks to issue all patents for the invention, or patents resulting therefrom, insofar as their interest is concerned, to Assignee; to have, hold, exercise, and enjoy, with all the rights, powers, privileges, and advantages in anywise arising therefrom or appertaining thereto, for and during the term or terms of any and all such patents when granted, for the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as Assignor might or could have held and enjoyed the same, if this assignment had not been made.

Assignor further hereby assigns, sells and transfers, and has assigned, sold, and transferred to Assignee, its successors and assigns, the entire right, title and interest in all countries of the world, in and to the invention and in and to the application and all patents which may be granted therefor, and all national applications, regional applications, divisions, reissues, substitutions, continuations, in whole or in part, re-examinations, and extensions thereof, including the right to file applications and obtain patents for the invention in its own name, in all countries and including all rights of priority in all countries under the terms of any applicable international convention, insofar as its interest is concerned; and the Assignor hereby authorizes and requests the applicable patent office in each country of the world to issue all patents for the invention, or patents resulting therefrom, insofar as its interest is concerned, to the Assignee, to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for which any and all of such patents for the invention may issue, to the same extent as the Assignor would hold and enjoy if this Assignment had not been made.

The Assignor further agrees to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights, and also agrees, at the request of the Assignee, to testify in any legal proceedings, sign all lawful papers, make all lawful oaths, and generally do everything possible to aid said Assignee, its successors and assigns, to obtain, maintain and enforce proper patent protection for said invention.

WORLDWIDE ASSIGNMENT

Page 2 of 2

IN WITNESS WHEREOF, each individual collectively referred to as Assignor has caused this Assignment to be executed.

EXECUTED this 21st day of July, 2010.

ASSIGNOR:
Signature: [Signature]
Name: Albert Clark LARDO

WITNESS:
Signature: [Signature]
Name: Dana T. Kemmer
Address: 720 BUTLAND AVE. / Ross 1060
Baltimore MD 21205

EXECUTED this 21st day of July, 2010.

ASSIGNOR:
Signature: [Signature]
Name: Richard T. GEORGE

WITNESS:
Signature: [Signature]
Name: Michelle Hughes
Address: 600 N Wolfe St / Block 524
Baltimore, MD 21287

EXECUTED this 21st day of July, 2010.

ASSIGNOR:
Signature: [Signature]
Name: Joao A.C. LIMA

WITNESS:
Signature: [Signature]
Name: Michelle Hughes
Address: 600 N. Wolfe St / Block 524
Baltimore, MD 21287

EXECUTED this 21st day of July, 2010.

ASSIGNOR:
Signature: _____
Name: Eduardo T. MARBAN

WITNESS:
Signature: _____
Name: _____
Address: _____

CUSTOMER NO.: 26694
VENABLE LLP
Washington, D.C. 20005

::ODMA\PCDOCS\DC2DOCS1\1105955\1

WORLDWIDE ASSIGNMENT

WHEREAS, Albert Clark LARDO, Richard T. GEORGE, Joao A. C. LIMA and Eduardo MARBAN, hereinafter (collectively) referred to as the Assignor, have invented a certain improvement relating to **COMBINED MULTI-DETECTOR CT ANGIOGRAPHY AND CT MYOCARDIAL PERFUSION IMAGING FOR THE DIAGNOSIS OF CORONARY ARTERY DISEASE**, for which said Assignor has caused an application for United States Letters Patent to be prepared,

[] the inventor's declaration for said application being executed concurrently with the execution of this instrument; said application to be filed in the U.S. Patent and Trademark Office;

[X] said application having been filed in the U.S. Patent and Trademark Office on March 25, 2010 and given Application No. 12/680,152;

[X] said application having been filed under the Patent Cooperation Treaty on September 29, 2008 and given International Application No. PCT/US2008/011265, the United States of America having been designated.

WHEREAS, **The Johns Hopkins University**, having a principal place of business located at **3400 North Charles Street, Baltimore, Maryland 21218**, hereinafter referred to as the Assignee, is desirous of acquiring the entire right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefore, including any and all renewals, reissues and prolongations thereof;

NOW THIS WITNESSETH, that for and in consideration of One Dollar (\$1.00), and other good and valuable consideration paid by Assignee to Assignor, the receipt and sufficiency of which is hereby acknowledged, Assignor hereby assigns, sells and transfers, and has assigned, sold, and transferred to Assignee, its successors and assigns, the entire and exclusive right, title, and interest for the United States in and to the invention, the application, any non-provisional application, and any patents which may be granted therefor, including any and all divisions, continuations, in whole or in part, substitutions, renewals, reissues, reexaminations, and extensions thereof, and all applications claiming priority therefrom; and Assignor authorizes and requests the Commissioner of Patents and Trademarks to issue all patents for the invention, or patents resulting therefrom, insofar as their interest is concerned, to Assignee; to have, hold, exercise, and enjoy, with all the rights, powers, privileges, and advantages in anywise arising therefrom or appertaining thereto, for and during the term or terms of any and all such patents when granted, for the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as Assignor might or could have held and enjoyed the same, if this assignment had not been made.

Assignor further hereby assigns, sells and transfers, and has assigned, sold, and transferred to Assignee, its successors and assigns, the entire right, title and interest in all countries of the world, in and to the invention and in and to the application and all patents which may be granted therefor, and all national applications, regional applications, divisions, reissues, substitutions, continuations, in whole or in part, re-examinations, and extensions thereof, including the right to file applications and obtain patents for the invention in its own name, in all countries and including all rights of priority in all countries under the terms of any applicable international convention, insofar as its interest is concerned; and the Assignor hereby authorizes and requests the applicable patent office in each country of the world to issue all patents for the invention, or patents resulting therefrom, insofar as its interest is concerned, to the Assignee, to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for which any and all of such patents for the invention may issue, to the same extent as the Assignor would hold and enjoy if this Assignment had not been made.

The Assignor further agrees to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights, and also agrees, at the request of the Assignee, to testify in any legal proceedings, sign all lawful papers, make all lawful oaths, and generally do everything possible to aid said Assignee, its successors and assigns, to obtain, maintain and enforce proper patent protection for said invention.

WORLDWIDE ASSIGNMENT

Page 2 of 2

IN WITNESS WHEREOF, each individual collectively referred to as Assignor has caused this Assignment to be executed.

EXECUTED this _____ day of _____, 2010.

ASSIGNOR:

Signature: _____
Name: Albert Clark LARDO

WITNESS:

Signature: _____
Name: _____
Address: _____

EXECUTED this _____ day of _____, 2010.

ASSIGNOR:

Signature: _____
Name: Richard T. GEORGE

WITNESS:

Signature: _____
Name: _____
Address: _____

EXECUTED this _____ day of _____, 2010.

ASSIGNOR:

Signature: _____
Name: Joao A.C. LIMA

WITNESS:

Signature: _____
Name: _____
Address: _____

EXECUTED this 9th day of July, 2010.

ASSIGNOR:

Signature: *Eduardo Marban*
Name: Eduardo MARBAN

WITNESS:

Signature: *Lisa Lim*
Name: LISA LIM
Address: 8700 BEVERLY BLVD SOUTH 5702
LOS ANGELES CA 90048

CUSTOMER NO. 26694
Washington, D.C. 20005

::ODMA\PCDOCS\DC2DOCS\11116819\1