

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT										
NATURE OF CONVEYANCE:	Corrective Assignment to correct the third inventor's name previously recorded on Reel 029771 Frame 0475. Assignor(s) hereby confirms the third inventor's name should be --Bal Mukund Dhar--.										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Howard Edan Katz</td> <td>01/07/2013</td> </tr> <tr> <td>Patrick N. Breyse</td> <td>01/08/2013</td> </tr> <tr> <td>Bal Mukund Dhar</td> <td>01/07/2013</td> </tr> <tr> <td>Noah Jonathan Tremblay</td> <td>12/31/2012</td> </tr> </tbody> </table>		Name	Execution Date	Howard Edan Katz	01/07/2013	Patrick N. Breyse	01/08/2013	Bal Mukund Dhar	01/07/2013	Noah Jonathan Tremblay	12/31/2012
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Howard Edan Katz	01/07/2013										
Patrick N. Breyse	01/08/2013										
Bal Mukund Dhar	01/07/2013										
Noah Jonathan Tremblay	12/31/2012										
RECEIVING PARTY DATA											
Name:	The Johns Hopkins University										
Street Address:	3400 North 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>13809134</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13809134						
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Application Number:	13809134										
CORRESPONDENCE DATA											
Fax Number:	2023448300										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	202-344-4000										
Email:	kadkins@venable.com, ptomail@venable.com										
Correspondent Name:	Venable LLP										
Address Line 1:	Henry J. Daley, Ph.D.										
Address Line 2:	P.O. Box 34385										
Address Line 4:	Washington, DISTRICT OF COLUMBIA 20043-9998										
ATTORNEY DOCKET NUMBER:	02240-341618										
NAME OF SUBMITTER:	Henry J. Daley, Ph.D.										

PATENT

Signature:	/Henry J. Daley, Ph.D./
Date:	06/27/2013
Total Attachments: 12 source=02240-341618 Corrected_assignment#page1.tif source=02240-341618 Corrected_assignment#page2.tif source=02240-341618 Corrected_assignment#page3.tif source=02240-341618 Corrected_assignment#page4.tif source=02240-341618 Corrected_assignment#page5.tif source=02240-341618 Corrected_assignment#page6.tif source=02240-341618 Corrected_assignment#page7.tif source=02240-341618 Corrected_assignment#page8.tif source=02240-341618 Corrected_assignment#page9.tif source=02240-341618 Corrected_assignment#page10.tif source=02240-341618 Corrected_assignment#page11.tif source=02240-341618 Corrected_assignment#page12.tif	

PATENT ASSIGNMENT

Electronic Version v1.1

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Howard Edan Katz	01/07/2013
Patrick N. Breysse	01/08/2013
Bal Makund Dhar	01/07/2013
Noah Jonathan Tremblay	12/31/2012
RECEIVING PARTY DATA	
Name:	The Johns Hopkins University
Street Address:	3400 North Charles Street
City:	Baltimore
State/Country:	MARYLAND
Postal Code:	21218
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	13809134
CORRESPONDENCE DATA	
Fax Number:	2023448300
Phone:	2023444000
Email:	elwright@venable.com, ptomail@venable.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:	Henry J. Daley
Address Line 1:	575 7th Street, N.W.
Address Line 4:	Washington, DISTRICT OF COLUMBIA 20004

ATTORNEY DOCKET NUMBER:	02240-341618
NAME OF SUBMITTER:	Henry J. Daley, Reg. No. 42,459
Signature:	/Henry J. Daley/
Date:	02/07/2013
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	
RECEIPT INFORMATION EPAS ID: PAT2263179 Receipt Date: 02/07/2013 Fee Amount: \$40	

WORLDWIDE ASSIGNMENT

WHEREAS, Howard Edan Katz, Patrick N. Brevsse, Bal Mukund Dhar, and Noah Jonathan Tremblay hereinafter (collectively) referred to as the Assignor, have invented a certain improvement relating to CIRCUITS, DEVICES AND SENSORS FOR FLUID DETECTION, 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 July 8, 2010, and given Application No. 61/362,474;

[X] said application having been filed under the Patent Cooperation Treaty on July 8, 2011, and given PCT/US2011/043393, 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.

WORLDWIDE ASSIGNMENT

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.

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

EXECUTED this 7 day of January, 2012.

ASSIGNOR: Howard Eden Katz

Signature: _____

WITNESS:

Signature: _____

Name: _____

Address: _____

EXECUTED this _____ day of _____, 2012.

ASSIGNOR: Patrick N. Brevasse

Signature: _____

WITNESS:

Signature: _____

Name: _____

Address: _____

EXECUTED this _____ day of _____, 2012.

ASSIGNOR: Bal Mukund Dhar

Signature: _____

WITNESS:

Signature: _____

Name: _____

Address: _____

EXECUTED this _____ day of _____, 2012.

ASSIGNOR: Noah Jonathan Tremblay

Signature: _____

WITNESS:

Signature: _____

Name: _____

Address: _____

VENABLE LLP
Washington, D.C. 20004

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EXECUTED this _____ day of _____, 2012.

ASSIGNOR: **Howard Edan Katz**

WITNESS:

Signature: _____

Signature: _____

Name: _____

Address: _____

EXECUTED this _____ day of _____, 2012.

ASSIGNOR: **Patrick N. Brevsse**

WITNESS:

Signature: Patrick N. Brevsse

Signature: Carla S Reinhard

Name: Carla Reinhard

Address: 25205 Woodfield School Rd
Gaithersburg, MD 20882

EXECUTED this 8 day of January, 2012.

ASSIGNOR: **Bal Mukund Dhar**

WITNESS:

Signature: _____

Signature: _____

Name: _____

Address: _____

EXECUTED this _____ day of _____, 2012.

ASSIGNOR: **Noah Jonathan Tremblay**

WITNESS:

Signature: _____

Signature: _____

Name: _____

Address: _____

VENABLE LLP
Washington, D.C. 20004

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ASSIGNOR: Howard Edan Katz

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Signature: _____

Signature: _____

Name: _____

Address: _____

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ASSIGNOR: Patrick N. Breyse

WITNESS:

Signature: _____

Signature: _____

Name: _____

Address: _____

EXECUTED this 7th day of Jan, 2012

ASSIGNOR: Bal Mukund Dhar

WITNESS:

Signature: Bal Mukund Dhar

Signature: WMA

Name: WILLIAM HERBERT

Address: 216 NORFOLK ST

CAMBRIDGE, MA 02139

EXECUTED this _____ day of _____, 2012.

ASSIGNOR: Noah Jonathan Tremblay

WITNESS:

Signature: _____

Signature: _____

Name: _____

Address: _____

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WITNESS:

Signature: _____

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Name: _____

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Signature: _____

Name: _____

Address: _____

EXECUTED this _____ day of _____, 2012.

ASSIGNOR: Bal Mukund Dhar

WITNESS:

Signature: _____

Signature: _____

Name: _____

Address: _____

EXECUTED this 31 day of DECEMBER, 2012.

ASSIGNOR: Noah Jonathan Tremblay

WITNESS:

Signature: [Signature]

Signature: [Signature]

Name: Xinhua Li

Address: 50 soldiers Field place

Brighton, MA 02135

VENABLE LLP
Washington, D.C. 20004