# 502223113 02/07/2013

# PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

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

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

Phone: 2023444000

Email: elwright@venable.com, ptomail@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:	02240-341618	
NAME OF SUBMITTER:	Henry J. Daley, Reg. No. 42,459	

Total Attachments: 8

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PATENT REEL: 029771 FRAME: 0475 13809134

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PATENT REEL: 029771 FRAME: 0476

# WORLDWIDE ASSIGNMENT

WHEREAS, Howard Edan Katz, Patrick N. Breysse, 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 <u>July 8, 2011</u>, and given <u>PCT/US2011/043393</u>, 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.

EXECUTED this day of Annual Signature: Name: Address: Signature: Name: Address: Signature: Name: Address: Signature: Name: Address: Signature: Signature: Name: Address: Signature: Signature: Name: Address: Name: Name: Address: Name: Name: Address: Name: Address: Name: Name: Address: Name: Nam	IN WITNESS WHEREOF, each individual obe executed.	collective	ely referred to as Assignor has caused this Ass	ignment to
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PATENT REEL: 029771 FRAME: 0478

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#### WORLDWIDE ASSIGNMENT

WHEREAS, Howard Edan Katz, Patrick N. Breysse, 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 <u>July 8, 2010</u>, and given <u>Application No. 61/362,474</u>;
- [X] said application having been filed under the Patent Cooperation Treaty on <u>July 8, 2011</u>, and given <u>PCT/US2011/043393</u>, 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.

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

be executed. EXECUTED this\_ WITNESS: ASSIGNOR: Howard Edan Katz Signature: Signature: Name: Address:\_ ASSIGNOR: WITNESS: 6 Signature: \_Carla Signature:\_\_ Name: Carla Address: 25205 Gaithersburg, MD 20882 ASSIGNOR: Bal Mukund Dhar WITNESS: Signature:\_ Signature: Name: Address: ASSIGNOR: Noah Jonathan Tremblay WITNESS: Signature: Signature: Name: Address: VENABLE LLP

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Washington, D.C. 20004

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PATENT REEL: 029771 FRAME: 0481

#### WORLDWIDE ASSIGNMENT

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6291320-v1

Washington, D.C. 20004

#### WORLDWIDE ASSIGNMENT

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**PATENT REEL: 029771 FRAME: 0483** 

## WORLDWIDE ASSIGNMENT

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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. Breysse	WITNESS:
Signature:	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 Signature:	WITNESS: Signature: Name: Address:  50 Soldiors Field Place
VENABLE LLP Washington, D.C. 20004	Brighton, MA 02135

PATENT REEL: 029771 FRAME: 0484

**RECORDED: 02/07/2013** 

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