506174712 07/28/2020

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

CONVEYING PARTY DATA

Name	Execution Date
ROHIT N. KARNIK	12/17/2014
SUMAN BOSE	12/17/2014
MICHAEL S.H. BOUTILIER	12/17/2014
NICOLAS G. HADJICONSTANTINOU	12/17/2014
TARUN KUMAR JAIN	12/17/2014
SEAN C. O'HERN	12/19/2014
DOOJOON JANG	12/17/2014

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16860054

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	M0925.70393US03	
NAME OF SUBMITTER:	JUSTIN DUFFY	
SIGNATURE:	/Justin Duffy/	

PATENT 506174712 REEL: 053327 FRAME: 0547

DATE SIGNED: 07/28/2020 **Total Attachments: 18** source=M092570393US03-ASI MIT-JSH#page1.tif source=M092570393US03-ASI MIT-JSH#page2.tif source=M092570393US03-ASI MIT-JSH#page3.tif source=M092570393US03-ASI_MIT-JSH#page4.tif source=M092570393US03-ASI_MIT-JSH#page5.tif source=M092570393US03-ASI MIT-JSH#page6.tif source=M092570393US03-ASI MIT-JSH#page7.tif source=M092570393US03-ASI_MIT-JSH#page8.tif source=M092570393US03-ASI_MIT-JSH#page9.tif source=M092570393US03-ASI_MIT-JSH#page10.tif source=M092570393US03-ASI MIT-JSH#page11.tif source=M092570393US03-ASI_MIT-JSH#page12.tif source=M092570393US03-ASI MIT-JSH#page13.tif source=M092570393US03-ASI MIT-JSH#page14.tif source=M092570393US03-ASI MIT-JSH#page15.tif source=M092570393US03-ASI_MIT-JSH#page16.tif source=M092570393US03-ASI MIT-JSH#page17.tif source=M092570393US03-ASI MIT-JSH#page18.tif

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned Assignor, hereby:

- Sell, assign and transfer to Massachusetts Institute of Technology, a Massachusetts University having a place of business at 77 Massachusetts Avenue, Cambridge, Massachusetts 02139, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, my entire right, title and interest for the United States and all foreign countries, in and to any and all inventions and designs which are disclosed in the application for United States Letters Patent filed in the United States Patent and Trademark Office on October 31, 2014 under No. 14/530,292, bearing Attorney Docket No. M0925.70393US01, and entitled MITIGATING LEAKS IN MEMBRANES, and in the application filed on October 31, 2014 under International Application No. PCT/US2014/063301, bearing Attorney Docket No. M0925.70393WO00, and entitled MITIGATING LEAKS IN MEMBRANES, and in and to the application and all corresponding provisional, non-provisional, divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent, utility models, industrial designs or similar intellectual property rights which have been or shall be filed in the United States, internationally, and in any foreign country, including but not limited to China, Japan and Korea, on any of the inventions; and in and to all original and reissued patents which have been or shall be issued in the United States or any other jurisdiction on the inventions, including the right to apply for patent rights in each foreign country and all rights to priority, including the right to claim priority for China, Japan and Korea;
- 2. Agree that the Assignee may apply for and receive Letters Patent and utility model and industrial design registrations for the inventions in its own name; and when requested, without charge to but at the expense of the Assignee, I agree to carry out in good faith the intent and purpose of this assignment, by executing all non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent, utility model and industrial design applications on any and all the inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to the Assignee all facts known to me relating to the inventions and the history thereof, and generally by doing everything reasonably possible which the Assignee shall consider desirable for aiding in securing and maintaining proper protection for the inventions and for vesting title to the inventions and all applications for patents and all patents on the inventions, in the Assignee:
- 3. Request the Director of the United States Patent and Trademark Office to issue the Letters Patent to the Assignee;
- 4. Authorize and request Wolf, Greenfield & Sacks, P.C. to supply any missing patent/application identification information or correct any errors in the patent/application identification information provided above, whether discovered prior to or after recordation;
- 5. Covenant with the Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me; and
- 6. Appoint Assignee, through its designee, my attorney-in-fact to execute, in my name and on my behalf, any and all documents required to effectuate this Assignment, specifically including, but not limited to, those documents specified above and any necessary corrective assignments.

Attorney Docket No. M0925.70393US01

Page 1 of 9



12/17/14 Date	Address:	Rohit M. Karnik 931 Massachusetts Avenue Apt. 704 Cambridge, Massachusetts 02139 India
Witness: $\frac{12 / 17 / 2014}{\text{Date}}$	Signature Name: Address:	PIRAN R. KIDAMBI 62 HIGHLAND AVENUE SOMERVILLE, MA - 02143, USA
Witness: 12/17/2214 Date	Signature Name: Address:	KRITHIKA RAMCHANDER. FO, PACIFIC STREET, RODM 3080 CAMBRIDGE, MA -02139, VS A

Page 3 of 9

12/19/14 Date	Inventor: Address: Citizenship:	Apt. 10E4 App'T PHB Cambridge, Massachusetts 02139 CAMBRIDGE, MA	: 02138 12/19/14
Witness: 12-17-14 Date	Signature Name:	Pala Cer	
Witness: 12-17-14 Date	Signatur Name: Address	Heera Matha	

Page 4 of 9

Dec. 12, 2014 Date	Inventor: Address: Citizenship:	540 Memorial Drive Apt. 703 Cambridge, Massachusetts 02139
Witness:	1	1. 11. 12.
12-17-19 Date	Signature Name: Address:	Heena Muthe
Witness: 12-17-14 Date	Signatur Name: Address	Han-Jae Cho 360 Riverway #11 Boston, MA 02115

Page 5 of 9

12/17/14	there
Date Inventor:	Nicolas O. Hadjiconstantinou
Address:	2 Magnolia Lane
	Lexington, Massachusetts 02420
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Date Signatur	re

Name: NISHA CHANDRAMOORTHY

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Witness: Deboral AAI	Librardi	,
12/17/2014 Date	Signature	wah Holehake
	Name:	MIT
	Address:	77 MASS AM, 3-359
		Dambridge MA 02139

Attorney Docket No. M0925.70393US01

Page 6 of 9

12/17/2014		Jarun Jain
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	Address:	900 Park Avenue
		Apt. 4E
		New York, New York 10075
	Citizenship:	US
Witness:	1	M M M
12/17/14	H	Ven Multi
Date	Signatur	e
	Name:	Heena Mutton
	Address	Heena Mutton 70 Spring St #1 Cambridge, MA 02141
		Cambridge, MA 02141
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Witness:		a chila
10/17/14	Signatur	
Date	Signatui	, ii
	Name:	Han-Jae Cho
	Address	: 360 Riverway # 11
		Boston, MA ORIIT

Page 7 of 9

Date		Sean C. O'Hern
	Address:	60 Wadsworth Street
		Apt. 26F
		Cambridge, Massachusetts 02142
	Citizenship:	US
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	Name:	
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	Address).

Page 8 of 9

Attorney Docket No. M0925.70393US01

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2/17/2014 Date	Inventor: Doøjoon Jang Address: 143 Albany Street Edgerton 134C Cambridge, Massachusetts 02139
	Citizenship: Republic of Korea
Witness:	Signature Name: Jean-Philippe PERAUD Address: 235 Alban, Street Cambridge MA Ociss, Usa
Witness: $\frac{12/17/2014}{\text{Date}}$	Signature J. R. Lieuw
	Name: PIRAN R. KIDAMBI

Page 9 of 9

3837801.1

Address: 62 HIGHLAND AVENUE

SOMERVILLE, MA - 02143, USA

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned Assignor, hereby:

- Sell, assign and transfer to Massachusetts Institute of Technology, a Massachusetts University having a place of business at 77 Massachusetts Avenue, Cambridge, Massachusetts 02139, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, my entire right, title and interest for the United States and all foreign countries, in and to any and all inventions and designs which are disclosed in the application for United States Letters Patent filed in the United States Patent and Trademark Office on October 31, 2014 under No. 14/530,292, bearing Attorney Docket No. M0925.70393US01, and entitled MITIGATING LEAKS IN MEMBRANES, and in the application filed on October 31, 2014 under International Application No. PCT/US2014/063301, bearing Attorney Docket No. M0925.70393WO00, and entitled MITIGATING LEAKS IN MEMBRANES, and in and to the application and all corresponding provisional, non-provisional, divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent, utility models, industrial designs or similar intellectual property rights which have been or shall be filed in the United States. internationally, and in any foreign country, including but not limited to China, Japan and Korea, on any of the inventions; and in and to all original and reissued patents which have been or shall be issued in the United States or any other jurisdiction on the inventions, including the right to apply for patent rights in each foreign country and all rights to priority, including the right to claim priority for China, Japan and Korea;
- 2. Agree that the Assignee may apply for and receive Letters Patent and utility model and industrial design registrations for the inventions in its own name; and when requested, without charge to but at the expense of the Assignee, I agree to carry out in good faith the intent and purpose of this assignment, by executing all non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent, utility model and industrial design applications on any and all the inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to the Assignee all facts known to me relating to the inventions and the history thereof, and generally by doing everything reasonably possible which the Assignee shall consider desirable for aiding in securing and maintaining proper protection for the inventions and for vesting title to the inventions and all applications for patents and all patents on the inventions, in the Assignee;
- 3. Request the Director of the United States Patent and Trademark Office to issue the Letters Patent to the Assignee;
- 4. Authorize and request Wolf, Greenfield & Sacks, P.C. to supply any missing patent/application identification information or correct any errors in the patent/application identification information provided above, whether discovered prior to or after recordation;
- 5. Covenant with the Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me; and
- 6. Appoint Assignee, through its designee, my attorney-in-fact to execute, in my name and on my behalf, any and all documents required to effectuate this Assignment, specifically including, but not limited to, those documents specified above and any necessary corrective assignments.

Attorney Docket No. M0925.70393US01

Page 1 of 9



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Page 4 of 9

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Page 5 of 9

Date	Inventor:	Nicolas G. Hadjiconstantinou
	Address:	2 Magnolia Lane
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	Citizenship:	US
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Page 6 of 9

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12/19/2014 Date	Inventor: Address: Citizenship:	60 Wadsworth Street Apt. 26F Cambridge, Massachusetts 02142	275 Main St. Apt 208 Watertown, MA 02472
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Witness:	Signature Name: Address:	Timothy Myors	01766

Date	Inventor:	Doojoon Jang
	Address:	143 Albany Street
		Edgerton 134C
		Cambridge, Massachusetts 02139
	Citizenship:	Republic of Korea
Witness:		

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