

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5518123

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
TRANSON V. NGUYEN	05/18/2017
COLLIN D.J. EDINGTON	05/18/2017
EMILY C. SUTER	05/09/2019
DAVID L. TRUMPER	05/18/2017
LINDA G. GRIFFITH	06/15/2017
RECEIVING PARTY DATA	
Name:	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Street Address:	77 MASSACHUSETTS AVENUE
City:	CAMBRIDGE
State/Country:	MASSACHUSETTS
Postal Code:	02139
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15399496
CORRESPONDENCE DATA	
Fax Number:	(978)341-0136
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
Phone:	978-341-0036
Email:	shannon.fay@hbsr.com
Correspondent Name:	MARK B. SOLOMON, ESQ.
Address Line 1:	530 VIRGINIA ROAD, P.O. BOX 9133
Address Line 2:	HAMILTON, BROOK, SMITH & REYNOLDS P.C.
Address Line 4:	CONCORD, MASSACHUSETTS 01742-9133
ATTORNEY DOCKET NUMBER:	5200.2121-001
NAME OF SUBMITTER:	SHANNON L. FAY
SIGNATURE:	/Shannon L. Fay/
DATE SIGNED:	05/10/2019
Total Attachments: 6	

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Multi-JointASSIGNMENT

WHEREAS, we, Transon V. Nguyen, Collin D.J. Edington, Emily C. Suter, David L. Trumper and Linda G. Griffith, together with co-inventor Rebecca Lyn Carrier, have invented a certain improvement in Device For Controlled Apical Flow In Cell Culture Inserts described in an application for Patent,

- the specification of which is about to be filed in the United States Patent Office (use for utility (37 CFR § 1.53(b)) and design filings only);
- is about to be filed in the United States Patent Office as a Provisional Application;
- the specification of which is United States Application No. 15/399,496, filed January 5, 2017;
- the specification of which is a Patent Cooperation Treaty Application, International Application No. [], filed [], which designates the United States of America [and is assigned United States Application No. []];
- which was patented under United States Patent No. [].

WHEREAS, Massachusetts Institute of Technology (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the Commonwealth of Massachusetts, and having a usual place of business at 77 Massachusetts Avenue, Cambridge, Massachusetts, 02139, desires to confirm its interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, our entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with our entire right, title and interest in and to said application and such Letters Patent as may issue on said invention; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of our entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for any and all related provisional and nonprovisional, international and national phase applications, including any and all substitution, reissue, divisional, continuation, and continuation-in-part applications, and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such

Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein; I hereby expressly authorize the filing of an International Patent Application under the Patent Cooperation Treaty which corresponds to and claims the priority of the above-identified application;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of any further applications including substitution, reissue, divisional or continuation, continuation-in-part applications, and all related provisional and nonprovisional, international and national phase applications, and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

Inventor *Tran Nguyen* Date 5/18/17
Tran V. Nguyen

Witness Signature *[Signature]*
Print Witness Name JAMES HARLAND SMITH

Witness Signature *[Signature]*
Print Witness Name OSKARI MANTTARI

Inventor _____ Date _____
Collin D.J. Edington

Witness Signature _____
Print Witness Name _____

Witness Signature _____
Print Witness Name _____

Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein; I hereby expressly authorize the filing of an International Patent Application under the Patent Cooperation Treaty which corresponds to and claims the priority of the above-identified application;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of any further applications including substitution, reissue, divisional or continuation, continuation-in-part applications, and all related provisional and nonprovisional, international and national phase applications, and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

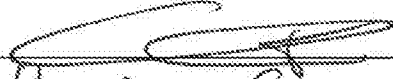
AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

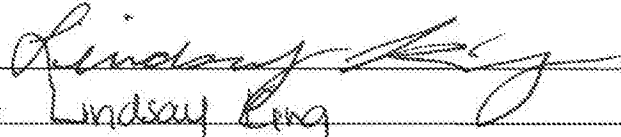
Inventor _____ Date _____
Transon V. Nguyen

Witness Signature _____
Print Witness Name _____

Witness Signature _____
Print Witness Name _____

Inventor  _____ Date 5/18/2017
Collin D.J. Edington

Witness Signature  _____
Print Witness Name Catherine Communal

Witness Signature  _____
Print Witness Name Lindsay King

Inventor Emily C. Suter Date 5/9/19
Emily C. Suter

Witness Signature Ari Joffe
Print Witness Name Ari Joffe

Witness Signature Kaden Southard
Print Witness Name Kaden Southard

Inventor _____ Date _____
David L. Trumper

Witness Signature _____
Print Witness Name _____

Witness Signature _____
Print Witness Name _____

Inventor _____ Date _____
Linda G. Griffith

Witness Signature _____
Print Witness Name _____

Witness Signature _____
Print Witness Name _____

Inventor _____ Date _____
Emily C. Suter

Witness Signature _____

Print Witness Name _____

Witness Signature _____

Print Witness Name _____

Inventor David L. Trumper Date 5/18/17.
David L. Trumper

Witness Signature Teresa D. Avila

Print Witness Name Teresa D. Avila

Witness Signature Matthew Byrd

Print Witness Name Matthew Byrd

Inventor _____ Date _____
Linda G. Griffith

Witness Signature _____

Print Witness Name _____

Witness Signature _____

Print Witness Name _____

Inventor _____ Date _____
Emily C. Suter

Witness Signature _____
Print Witness Name _____

Witness Signature _____
Print Witness Name _____

Inventor _____ Date _____
David L. Trumper

Witness Signature _____
Print Witness Name _____

Witness Signature _____
Print Witness Name _____

Inventor _____ Date 15 June 2017
Linda G. Griffith

Witness Signature Lindsay King
Print Witness Name Lindsay King

Witness Signature Pamela H. Fraden
Print Witness Name Pamela H. Fraden