## 502593318 12/06/2013

## PATENT ASSIGNMENT COVER SHEET

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## PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13951067

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ATTORNEY DOCKET NUMBER:	102590-0345 (1 OF 2)
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	PATENT

502593318 PATENT REEL: 031730 FRAME: 0481

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PATENT REEL: 031730 FRAME: 0482

Atty. Dkt. No. 102590-0345

#### ASSIGNMENT - WORLDWIDE

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor (hereinafter referred to singly and collectively as "ASSIGNOR") has sold, assigned, and transferred, and by these presents hereby sells, assigns, and transfers, unto

The Charles Stark Draper Laboratory 555 Technology Square Cambridge, MA 02139

(hereinafter referred to singly and collectively as "ASSIGNEE") its successors and assigns, the full and exclusive right, title and interest for the United States, its territories and possessions, and all foreign countries in and to this invention relating to

# MODULAR PLATFORM FOR MULTI-TISSUE INTEGRATED CELL CULTURE

as set forth in	n this	United States Patent Application
check one		] executed concurrently herewith, ] executed on, ] Serial No. 13/951,067 Filed 07/25/2013

as well as in and to (a) all improvements and modifications of the above-identified invention or inventions, (b) the above-identified application and all other applications for Letters Patent of the United States and countries foreign thereto for above-identified invention or inventions and all improvements and modifications thereof, (c) all Letters Patent which may issue from said applications in the United States and countries foreign thereto, (d) all divisions, continuations, reissues, and extensions of said applications and Letters Patent, and (e) the right to claim for any of said applications the full benefits and priority rights under the Patent Cooperation Treaty, the Paris Convention and any other international agreement; such right, title, and interest to be held and enjoyed by ASSIGNEE, its successors and assigns, to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by ASSIGNOR had this Assignment not been made.

ASSIGNOR HEREBY AUTHORIZES ASSIGNEE to file patent applications in any or all countries on the above-identified invention or inventions in the name of the undersigned or in the name of ASSIGNEE or otherwise as ASSIGNEE may deem advisable under the International Convention or otherwise.

ASSIGNOR HEREBY AUTHORIZES AND REQUESTS the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE as assignee of the entire interest, for the sole use and benefit of ASSIGNEE, its successors and assigns.

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PATENT REEL: 031730 FRAME: 0483 ASSIGNOR HEREBY AGREES (a) to communicate to ASSIGNEE, its successors and assigns, or their representative or agents, all facts and information known or available to ASSIGNOR respecting said invention or inventions, improvements, and modifications including evidence for interference, reexamination, reissue, opposition, revocation, extension, or infringement purposes or other legal, judicial, or administrative proceedings, whenever requested by ASSIGNEE; (b) to testify in person or by affidavit as required by ASSIGNEE, its successors and assigns, in any such proceeding in the United States or a country foreign thereto; (c) to execute and deliver, upon request by ASSIGNEE, all lawful papers including, but not limited to, original, divisional, continuation, and reissue applications, renewals, assignments, powers of attorney, oaths, affidavits, and declarations, depositions; and (d) to provide all reasonable assistance to ASSIGNEE, its successors and assigns, in obtaining and enforcing proper title in and protection for said invention or inventions, improvements, and modifications under the intellectual property laws of the United States and countries foreign thereto.

ASSIGNOR HEREBY REPRESENTS AND WARRANTS that ASSIGNOR has the full and unencumbered right to sell, assign, and transfer the interests sold, assigned, and transferred herein, and that ASSIGNOR has not executed and will not execute any document or instrument in conflict herewith.

ASSIGNOR HEREBY GRANTS to the law firm of Foley & Lardner LLP the power and authority to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

ASSIGNOR UNDERSTANDS AND AGREES that the attorneys and agents of the law firm of Foley & Lardner LLP do not personally represent ASSIGNOR OR ASSIGNOR's legal interests, but instead represent the interests of ASSIGNEE; since said attorneys and agents cannot provide legal advice to ASSIGNOR with respect to this Assignment, ASSIGNOR acknowledges its right to seek its own independent legal counsel.

Executed this 10 day of October, 20 13
000
/ JOSEPH CUIFFI /
State of Florid
State of <u>Florid</u> County of <u>Lee</u>
On thisday of
NATIONAL AND
Some of the state
Signs Signs Expires: 3-21-16  My Commission Expires: 3-21-16  See 147845
Executed this day of, 20
JEFFREY T. BORENSTEIN
State of
County of)
On thisday of
WITNESS my hand and official seal.
Signstore
My Commission Expires:

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4826-4857-6788.1

Executed this	day of	, 20
		JOSEPH CUIFFI
State of	)	
County of	)	
subscribed to the within instrument and	l acknowledged to me that he/:	efore me,
WITNESS my hand and official seal.		
Signature		A MICHELLE R. KEARNS
My Commission Expires:		Notary Public COMMONWEAUTH OF MASSACHUSETTS My Commission Expires March 7, 2019
Executed this 2	day of Octob	·/
		JEF <b>Y</b> REYT, BORENSTEIN
State of Masselyse K	)	JEF <b>YREY</b> T. BORENSTEIN
County of Middlosex	)	Acres Element & Marie
for said county), personally appeared IF whose name is subscribed to the within	EFFREY T. BORENSTEIN, with instrument and acknowledged	cfore me, As Landary public in and the proved to me on the basis of satisfactory evidence to be the person to me that he/she executed the same in his/her authorized capacity, and that ehalf of which the person acted, executed the instrument.
WITNESS my hand and official seal		
Signature 444 C		
My Commission Expires: 3/7/19	· · · · · · · · · · · · · · · · · · ·	MICHELLE R. KEARNS Notary Public COMMONWEALTH OF MASSACHUSETTS My Commission Expires Med. 17, 2019

Executed this 9 day of Octor , 20 13.
HIMU
ANILKUMAR HARAPANAHALLI
ACHYUTA
State of Massichure (5)
County of Middlesex
On this 4 day of 15 for 20 13 before me, 16 for said county), personally appeared ANILKUMAR HARAPANAHALLI ACHYUTA, who proved to me on the basis of satisfactory evidence
to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument
WITNESS my hand afficial seal
Signature Signat
MICHELLE R. KEARNS Notary Public
My Commission Expires. 3/2// My Commission Expires
March 7, 2019
Executed this [3] day of Od , 20[3,
Mel / Moshy MARK J. MESCHER
Mark J. MESCHER  State of March 2015
State of Mark J. MESCHER  County of Mark J. MESCHER
State of Massich (State of Mas
State of Massic State St
State of Massich (State of Mas
State of Mark J. Mescher  County of Add Sec 20 B before me. A land to notary public in and for said gointy), personally appeared MARK J. MESCHER, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her
State of MARK J. MESCHER  State of MARK J. MESCHER  On this day of 20/2, before me. / 1/2/2 (a notary public in and for said knowly), personally appeared MARK J. MESCHER, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.  WITNESS my hapf and official seal.  Signature
State of Mark J. MESCHER  State of Mark J. MESCHER  On this day of 20 2 before me. A landary public in and for said country), personally appeared MARK J. MESCHER, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.  WITNESS my hapfl and official scall  Signature  MICHELLE R. KEARNS
State of Mark J. MESCHER  State of Mark J. MESCHER  On this day of 20 % before me.  On this day of 20 % before me is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.  WITNESS my hapfland official scal  Signature  MICHELLE R. KEARNS  Notary Public  COMMONWEALTH OF MASSACHUSETTS
State of MARK J. MESCHER  State of MARK J. MESCHER  On this

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**RECORDED: 12/06/2013**