PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DAVID L. KAPLAN	03/06/2014
KONSTANTINOS TSIORIS	05/16/2014
FIORENZO G. OMENETTO	03/06/2014
ELEANOR M. PRITCHARD	05/09/2014

RECEIVING PARTY DATA

Name:	TRUSTEES OF TUFTS COLLEGE
Street Address:	BALLOU HALL
City:	MEDFORD
State/Country:	MASSACHUSETTS
Postal Code:	02155

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13880592

CORRESPONDENCE DATA

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NAME OF SUBMITTER:	BRIAN E. REESE
SIGNATURE:	/Brian E. Reese/
DATE SIGNED:	07/17/2014

Total Attachments: 6

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PATENT REEL: 033331 FRAME: 0686

Attorney Docket No: 2002458-0506

JOINT ASSIGNMENT

WHEREAS, each of the below-named inventors whose name and residence is set forth in the following Table 1:

Inventor Name	City, State
1. David L. Kaplan	Concord, MA
2. Konstantinos Tsioris	Somerville, MA
3. Fiorenzo G. Omenetto	Lexington, MA
4. Eleanor M. Pritchard	New Orleans, LA

Table 1

hereby declares and agrees, on behalf of himself/herself and all of his/her successors and assigns that each is aware of the patent application(s) entitled:

SILK FIBROIN-BASED MICRONEEDLES AND METHODS OF MAKING THE SAME; and

		prepared for filing in the United States Patent and Trademark Office; or
States	Natent :	identified by United States Application Serial No. 13/880,592 filed in the United and Trademark Office on September 3, 2013; and
and		identified by International Patent Application No. Serial No. filed on Filing Date;
	\boxtimes	is also aware of the following priority applications:
		il No.: PCT/US11/56856; Filed: October 19, 2011 il No.: 61/394,479; Filed: October 19, 2010

WHEREAS Trustees of Tufts College (hereinafter "ASSIGNEE"), having a usual place of business at Ballou Hall, Medford, MA 02155, desires to acquire or confirm an interest therein;

NOW, THEREFORE, to all whom it may concern be it known that, in consideration of agreements previously and duly entered into between the parties, and/or for other good and valuable consideration, the receipt of which is hereby acknowledged, I have sold, assigned, and transferred and/or do hereby sell, assign, and transfer unto said ASSIGNEE, its successors, assigns, and legal representatives, my entire right, title, and interest in and throughout the United States of America, its territories and all foreign countries, in and to any and all inventions described in the patent application, and/or any priority applications noted above, including any right of priority thereto; and hereby confirm that my sale, assignment and transfer is and was effective at least as of the filing date of the patent application and/or priority application. My sale, assignment and transfer applies to the above-referenced patent application, and to any

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application that is based in whole or in part on the patent application, including to divisional, continuing, substitute, renewal, reissue, reexamination and other applications, for example that claim priority to the patent application. Also, this sale, assignment and transfer pertains to any and all other rights arising under or pursuant to any and all international agreements, treaties, or laws relating to the protection of industrial property, including all rights of priority under the International Convention for the Protection of Industrial Property, and in and to any such patent(s) as may issue thereon including any and all original and reissued patents which have been or shall be issued in the United States and foreign countries; said inventions, applications, and patent(s) to be held and enjoyed by ASSIGNEE for its own use and for its successors, assigns and legal representatives, to the full end of the term for which said patent(s) may be granted as fully and entirely as the same would have been held by me had this sale, assignment and transfer not been made:

- AND, I hereby acknowledge that this Assignment, being of my entire right, title, and interest in and to the inventions, carries with it the right in ASSIGNEE, by attorneys and agents of ASSIGNEE selection, to apply for and receive any and all patent(s) for said inventions in its own name;
- AND, I hereby further agree for myself and my 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 patent(s) to ASSIGNEE, its successors, assignees, and legal representatives, but at its expense and charges, including the execution of application for patents in foreign countries, the execution of substitution, reissue, divisional or continuation applications, and the giving of testimony, preliminary statements, or other statements in any interference or other proceeding in which the inventions or any applications or patents directed to the inventions may be involved by communicating to the ASSIGNEE all facts I know relating to the inventions and their history, and generally by doing everything possible which ASSIGNEE shall consider desirable for aiding in securing and maintaining proper patent protection for the inventions and for vesting title in the inventions and all applications for patent and all patents on the inventions in ASSIGNEE;
- AND, I further hereby authorize ASSIGNEE or its attorneys or agents to insert the correct serial number(s) and/or filing date(s) into this assignment document, if appropriate;
- AND, I hereby appoint ASSIGNEE as my common agent for purposes of prosecuting international patent applications and any national patent applications for which such common agency is recognized;
- AND, I hereby request the Commissioner for Patents of the United States Patent and Trademark Office to issue any and all patent(s) as shall be granted upon said application or applications based thereon to ASSIGNEE, its successors, assigns, and legal representatives;
- AND, I covenant with said 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.

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Dalle	3/6/2014
Name: David L. Kaplan	Date
Witness Signature:	3/6/14
Name (please print): Martin 5on	Date
Witness Signature:	3/6/14
Name (please print): Erila Bechtold	Date

	5-16-19
Name: Konstantinos Tsioris	Date
Witness Signaturer Name (please print): Jacque Che M. Lane	<u>5-16-14</u> Date
Witness Signature: Hatte Muessig Name (please print): KATHRYN E MUESSIG	5-16-14 Date

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m to	2/6/2014
Name: Fiorenzo G. Omenetto	Date
Witness Signature: Cultural Erika Bechtold Cultural	3/6/14
Name (please print):	Date
Witness Signature:	3/6/14
Name (please print): Martin Son	Date

Eleanor M. Pritchard	05/09/2014
Name: Eleanor M. Pritchard	Date
Witness Signature: Garl Church Jared T. Jammill Name (please print):	
Jacob T Hammill	5/9/2014
Name (please print):	Date
Witness Signature:	
Mit I he	5/9/2014
Name (please print):	Date
NATHANIEL R. TWAROG	

RECORDED: 07/17/2014