PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6576465

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ELAZER R. EDELMAN	02/23/2021
BRIAN YALE CHANG	02/25/2021

RECEIVING PARTY DATA

Name:	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Street Address:	77 MASSACHUSETTS AVENUE
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State/Country:	MASSACHUSETTS
Postal Code:	02139

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16446419

CORRESPONDENCE DATA

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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.

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Correspondent Name: BOTOS CHURCHILL IP LAW LLP

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ATTORNEY DOCKET NUMBER: ABIO 3.0F-049 [ABIO.204]	
NAME OF SUBMITTER:	AVA MARIE FELA
SIGNATURE:	/Ava Marie Fela/
DATE SIGNED:	03/01/2021

Total Attachments: 4

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PATENT 506529689 REEL: 055444 FRAME: 0985

J0007.US03 J0009.US01 J0007.US05 J0007.WO02

ASSIGNMENT

WHEREAS, I, <u>ELAZER R. EDELMAN, AND BRIAN YALE CHANG</u>, have invented <u>SYSTEMS AND METHODS FOR DETERMINING CARDIAC</u>

<u>PERFORMANCE</u> described in an application for Letters Patent of the United States, the specification of which:

- [x] was filed on June 18, 2019 as Application No. 62/863,146;
- [x] was filed on December 5, 2019 as Application No. 62/944,275;
- [x] was filed on June 19, 2019 as Application No. 16/446,419; and
- [x] was filed on June 19, 2019 as Application No. PCT/US2019/038039

WHEREAS, Massachusetts Institute of Technology (hereinafter "Assignee"), a corporation having principal offices at 77 Massachusetts Avenue, Cambridge, MA 02139, desires to acquire an interest in the Application in accordance with agreements duly entered into with me;

WHEREAS, the aforesaid inventor is obliged by terms of employment or other agreement to assign all right, title and interest in the Applications to the Assignee;

NOW, THEREFORE, in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, I confirm that I have sold, assigned and transferred and by these presents 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 said Applications (and any inventions described therein) and such patents as may issue thereon, and any reissue, continuation, continuation-in-part, divisional and foreign counterparts thereof and including the right to claim priority under any applicable statute, treaty or convention based on said Applications or inventions thereof; said Applications and patents 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 patents may be granted as fully and entirely as the same would have been held by me had this assignment not been made; I 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 such Applications, all choses in action pertaining to the Applications or patents including the right to sue for and collect damages and other recoveries for past infringement thereof, all rights to initiate proceedings before government and administrative bodies, and all files, records and other materials arising from the prosecution, exploitation, or defense of rights and registrations pertaining to the Applications or patents. I hereby acknowledge that this assignment, being of my entire right, title and interest in and to said

AMERICAS 100134459

PATENT REEL: 055444 FRAME: 0986 Applications, carries with it the right in Assignee to apply for and obtain from competent authorities in all countries of the world any and all patents by attorneys and agents of Assignee's selection and the right to procure the grant of all such patents to Assignee for its own name as assignee of the entire right, title and interest therein;

AND, I hereby further agree for myself and my executors and administrators to execute upon request my other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid Applications and patents to said Assignee, its successors, assigns and legal representatives, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional, continuation or continuation-in-part applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said inventions or any applications or patent directed thereto may be involved;

AND, I do hereby authorize and request the Commissioner of Patents of the United States to issue such patents as shall be granted upon said Application or applications based thereon to said Assignee, its successors, assigns, and legal representatives.

Inventor:	Signature:	Jan h. Ell	Date:	2/23/2021
	Name:	Elazer R. Edelman		
Inventor:	Signature:		Date:	
	Name:	Brian Yale Chang		

J0007.US03 J0009.US01 J0007.US05 J0007.WO02

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NOW, THEREFORE, in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, I confirm that I have sold, assigned and transferred and by these presents 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 said Applications (and any inventions described therein) and such patents as may issue thereon, and any reissue, continuation, continuation-in-part, divisional and foreign counterparts thereof and including the right to claim priority under any applicable statute, treaty or convention based on said Applications or inventions thereof; said Applications and patents 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 patents may be granted as fully and entirely as the same would have been held by me had this assignment not been made; I 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 such Applications, all choses in action pertaining to the Applications or patents including the right to sue for and collect damages and other recoveries for past infringement thereof, all rights to initiate proceedings before government and administrative bodies, and all files, records and other materials arising from the prosecution, exploitation, or defense of rights and registrations pertaining to the Applications or patents. I hereby acknowledge that this assignment, being of my entire right, title and interest in and to said

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PATENT REEL: 055444 FRAME: 0988 Applications, carries with it the right in Assignee to apply for and obtain from competent authorities in all countries of the world any and all patents by attorneys and agents of Assignee's selection and the right to procure the grant of all such patents to Assignee for its own name as assignee of the entire right, title and interest therein;

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AND, I do hereby authorize and request the Commissioner of Patents of the United States to issue such patents as shall be granted upon said Application or applications based thereon to said Assignee, its successors, assigns, and legal representatives.

Inventor:	Signature:		Date:	
	Name:	Elazer R. Edelman		
Inventor:	Signature:	Brian Yale Chang	Date:	Feb 25, 2021

RECORDED: 03/01/2021