505178245 11/06/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5225013

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HUGH M. HERR	02/11/2010
KWOK WAI SAMUEL AU	01/16/2013
BRUCE WAYNE DEFFENBAUGH	11/04/2009
LEE HARRIS MAGNUSSON	02/02/2010
ANDREAS G. HOFMANN	01/28/2010
BENJAMIN B. AISEN	11/04/2009
JEFF A. WEBER	03/15/2015

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:	16182298

CORRESPONDENCE DATA

Fax Number: (978)341-0136

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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Email: carrie.howder@hbsr.com

Correspondent Name: JAMES M. SMITH

Address Line 1: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

Address Line 2: 530 VIRGINIA ROAD, PO BOX 9133

Address Line 4: CONCORD, MASSACHUSETTS 01742-9133

ATTORNEY DOCKET NUMBER:	4889.1000-041 MIT12752TE
NAME OF SUBMITTER:	CARRIE L. HOWDER
SIGNATURE:	/Carrie L. Howder/
DATE SIGNED:	11/06/2018

505178245 REEL: 047427 FRAME: 0217

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PATENT REEL: 047427 FRAME: 0218

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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

	ASSIGNMENT OF AF	PPLICATION	,	Docket Number	er (Optional) H-30	
Whereas, I,	Hugh M. Herr	of	Somerville.	MA 02143	, hereafter	ļ
referred to as app	licant, have invented certa Po	ain new and use wered ankle-foot pi	•	s (n <u>· </u>		
for which	an application for a United in Number 12 / 157,72	l States Patent v	vas filed on	6/12/2008		
F	an application for a United				, and	
Whereas, Messa	chusetts Institute of Techno	ology of	Cambridge, MA 0	2139 he	rein referred to	
"assignea" whose	post office address is 77	Messechusetts Av	enue, Cambridge, M	A 02139	-sb ai	1
sirous of acquiring	g the entire right, title and l	Interest in the sa	ame;	:		'
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knowledged, and	other good and valuable o	onsideration, I,	the applicant, by	these presents	do sell, assign	۱: <u>۱</u>
and transfer unto	sald assignee the full and	exclusive right t	o the sald inventi	on in the United	States and the	۲.
entire right, title ar	ed interest in and to any an	d all Patents wh	ich may be grante	ed therefor in the	United States,	1
I hereby authorize	e and request the Commis	ssioner of Paten	its and Tredeme	rks tọ issue sald	United States	
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Joint

<u>ASSIGNMENT</u>

WHEREAS, we, Hugh M. Herr, Jeff A. Weber, Kwok Wai Samuel Au, Bruce Wayne Deffenbaugh, Lee Harris Magnusson, Andreas G. Hofmann and Benjamin B. Aisen, have invented a certain improvement in Powered Ankle-Foot Prosthesis 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;
\boxtimes	the specification of which is United States Application No. 12/157,727, filed June 12, 2008;
	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. 8,512,415.

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, the 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 the 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 the 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

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therein; we 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 future 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
	Hugh M. Herr	
Address_	51 Montrose Street	
	Somerville, Massachusetts 02143	LEADING TO SERVICE TO
Witness Signatur	e	
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	e	
Print Witness Na	me	
Address		A section of the sect
		Date
Inventor_	Jeff A. Weber	Date
Address	1240 Pennsylvania Ave.	
,	San Francisco, California 94107	
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- 3 -

Inventor Gamuel Sa	Date	1/16/2013
Kwok Wai Samuel Au		
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Ashdown House #612C	•	
Cambridge, Massachusetts 02139		
Witness Signature //		
Print Witness Name Vivian Le		
Address 1266 Kifar Rd		
Sunnyvale, cft 94086		
Witness Signature Ollis V. Swan		
Print Witness Name LOWS V SPICCIATI		×
FREMONT, CA 94536		
,		
Inventor D. C. J	Date	
Bruce Wayne Deffenbaugh		
Address P.O. Box 75201		
Honolulu, Hawaii 96836		
Witness Signature		
Print Witness Name		
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		Line
Witness Signature		
Print Witness Name		
Address		···

- 4 -

Inventor		Date
	Lee Harris Magnusson	-
Address	985 San Bruno Avenue	
	San Francisco, California 94110	
Witness Signature_		
	e	
Witness Signature_		
Print Witness Name	e	
Address		
	Market Ma	Date
Inventor	Andreas G. Hofmann	
Address	68 C. Marginal St.	
	East Boston, Massachusetts 02128	
_		
	e	
Print Witness Nam	e	

- 5 -

Inventor	Date	
Benjamin B. Aisen		
Address 89 Murray Street, Apt. 15F		
New York, New York 10007		
Witness Signature		
Print Witness Name		
Address		
Witness Signature		
Print Witness Name		
Address		

\$ 50 pt.

	ASSIGNMENT OF APP	LICATION		Docket Numb	er (Optional) H-30
Wh вгевз, I,	Bruce Wayne Delfenbaugh	of	Honolulu,	HI 96836	, hereafter
referred to as a	applicant, hava invented certain Power	new and use a poot-extra be		3 in	
for wh	ich an application for a United St atton Number 12 / 157,727	ates Patent v	es filed on	6/12/2008	l
	ich an application for a United St				•
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"assignee" wh	ose post office address is 77 Mat	sachuselte Av	mue, Cambridge, M	A 02139	is de-
sirous of ecqu	iring the entire right, title end into	erest in the s	ime; .		
Now, therefore	, in consideration of the sum of	One c	ollars (\$ -1.00 .), the receipt	whereofis ac ₇
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Seal S	GEOFFREY V. WILSON		AA	(Notary Public)	<u> </u>
r Statement: TAN n the amount of t DC 20231. De i DC 20231.		Michael Andrews	a will valve depending ant to the Chief Info DDRESS. SEND TO	mation Officer, Pa D: Commissioner of	bent end Trademark of Petente end Trade

	ct of 1995, no persons are required to respond to a	• •	Docket Number (Optional) H-30
Whereas, I,	Lee Harris Magnusson of	Cambridge, i	WA 02141 , hereaft
referred to as app	plicant, have invented certain new and u	seful improvements	in
<u></u>	Powered sakle-fool	profitesis	
for which	n an application for a United States Paten on Number 12 / 157,727	twas filed on	6/12/2008
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Mass.	achusetts institute of Technology_of	Cambridge, MA 02	139 harain referred
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Under the Peperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control no Docket Number (Optional) ASSIGNMENT OF APPLICATION H-30 Cambridge, MA 02140 hereafter Andreas G. Hofmann Whereas, I. referred to as applicant, have invented certain new and useful improvements in Powered ankle-foot prothesis or which an application for a United States Patent was filed on Application Number for which an application for a United States Patent was executed on Cembridge, MA 02139 Whereas, Massachusetts Institute of Technology of herein referred to "assignee" whose post office address is 77 Massachusetts Avenue, Combridge, MA 02139 strous of acquiring the entire right, title and interest in the same; Now, therefore, in consideration of the sum of One . . dollars (\$_1.00 __), the receipt whereof is acknowledged, and other good and valuable consideration, I, the applicant, by these presents do sell, assign and transfer unto said assignee the full and exclusive right to the said invention in the United States and the entire right, title and interest in and to any and all Patents which may be granted therefor in the United States, i hereby authorize and request the Commissioner of Patents and Trademarks to issue said United States Patent to said assignee, of the entire right, title, and interest in and to the same, for his sole use and behoof; and for the use and behoof of his legal representatives, to the full end of the term for which said Patent may be granted, as fully and entirely as the same would have been held by me had this assignment and sale not

mments on the most opting volume to the party forms to this ADDRESS. SEND TO: Commissioner of Potents and Tradems ashington, DC 20231-2-1-001 SEND-TESS-DE COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner of Potents and Tradems ashington, DC 20231.

SECUFFICY V. WILSON

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Joint

ASSIGNMENT

WHEREAS, we, Hugh M. Herr, Jeff A. Weber, Kwok Wai Samuel Au, Bruce Wayne Deffenbaugh, Lee Harris Magnusson, Andreas G. Hofmann and Benjamin B. Aisen, have invented a certain improvement in Powered Ankle-Foot Prosthesis 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. 12/157,727, filed June 12, 2008;
	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.];
\boxtimes	which was patented under United States Patent No. 8,512,415.

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, the 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 the 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 the 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

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therein; we 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 future 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	
	Hugh	ı M. Herr			
Address5	Montrose Street				
S	omerville, Massac	chusetts 02143		<u></u>	
Witness Signature				***************************************	
Print Witness Name	······································				
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Inventor	Jeff	Weber	energy .	Date	3/15/15
Address -1	240 Pennsylvania	-m	70 Ze	74 ST.	#1
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Inventor	Date
Kwok Wai Samuel Au	
Address 305 Memorial Drive.	
Ashdown House #612C	
Cambridge, Massachusetts 02139	
Witness Signature	
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Print Witness Name	
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Inventor	
Bruce Wayne Deffenbaugh	
Address P.O. Box 75201	
Honolulu, Hawaii 96836	
Witness Signature	
Print Witness Name	
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Inventor		Date
	Lee Harris Magnusson	
Address	985 San Bruno Avenue	
	San Francisco, California 94110	
Witness Signature		
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