

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	JEFF ANTHONY WEBER	04/20/2015
	HUGH M. HERR	07/26/2010
	ERNESTO CARLOS MARTINEZ-VILLALPANDO	07/26/2010
<b>RECEIVING PARTY DATA</b>		
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<b>PROPERTY NUMBERS Total: 1</b>		
<b>Property Type</b>	<b>Number</b>	
<b>Application Number:</b>	13959495	
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<b>ATTORNEY DOCKET NUMBER:</b>	4889.1000-033 MIT-13611T	
<b>NAME OF SUBMITTER:</b>	LYNN SILVA	
<b>SIGNATURE:</b>	/Lynn Silva/	
<b>DATE SIGNED:</b>	04/30/2015	
<b>Total Attachments: 6</b>		
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# ASSIGNMENT OF PATENT APPLICATION

## FOR GOOD AND VALUABLE CONSIDERATION,

We, the undersigned (each) have agreed and hereby agree to assign for good and valuable consideration, receipt of which is hereby expressly acknowledged, and do hereby sell, assign and transfer unto

Massachusetts Institute of Technology, 77 Massachusetts Avenue, Cambridge, MA 02139

a corporation organized under the laws of the state of Massachusetts as Assignee, and its successors, assigns and legal representatives, the entire right, title and interest, for all countries in and to certain inventions relating to

Powered Artificial Knee with Agonist-Antagonist Actuation

described in an application for Letters Patent of the United States, identified as Attorney Docket No. 036734/0650, at Henderson Patent Law, 13 Jefferson Drive, Londonderry, NH 03053 and filed on 2/1/2010, as Application Serial No. 12/897,894, and as PCT International Patent Application Serial No. EC/EU/2010/022260, and the invention(s) and improvement(s) set forth therein, and any and all continuations, continuations-in-part, divisionals, and renewals of and substitutes for said application for said Letters Patent, and any and all foreign counterpart applications, and all the rights and privileges under any and all Letters Patent that may be granted therefor in any country, and any renewals, or reexaminations, or extensions of said Letters Patent. We request that any and all Letters Patent for said inventions be issued to said Assignee, its successors, assigns and legal representatives, or to such nominees as it may designate.

We agree that, when requested, we will, without charge to said Assignee but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for said inventions in any and all countries and for vesting title therein in said Assignee, its successors, assigns and legal representatives or nominees.

We authorize and empower the said Assignee, its successors, assigns and legal representatives or nominees, to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from us.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said Assignee or nominee to claim the aforesaid benefit of the right of priority provided by the International convention which may henceforth be substituted for it.

We hereby authorize Norma E. Henderson, attorney for Assignee, to insert the filing date and Serial number into the first paragraph of this assignment, after any such application for Letters Patent has been filed, and the Patent Office has assigned such application a Serial Number.

We covenant with said Assignee, its successors, assigns and legal representatives, that the rights and property herein conveyed are free and clear of any encumbrance, and that we have full right to convey the same as herein expressed.

IN WITNESS WHEREOF, we have hereunto signed our names on the day and year set forth below.

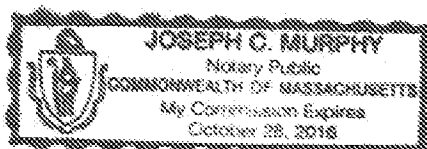
[Signature]  
 Inventor's Signature

July 26, 10  
 DATE

Hugh M. Herr  
 Inventor's Printed Name

STATE OF MA  
 COUNTY OF Middlesex } ss

On this 26 day of JULY 2010, before me personally came the above named Hugh M. Herr who is personally known by me or proved to me on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment, and who acknowledged to me that he/she executed the same of his/her own free will for the use and purposes therein set forth.



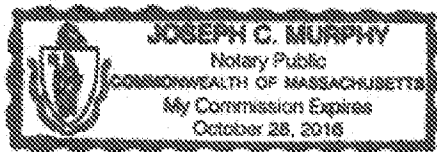
[Signature]  
 NOTARY PUBLIC  
 My Commission Expires 10/28/16

[Signature]  
Inventor's Signature  
Ernesto Carlos Martinez Villalpando  
Inventor's Printed Name

07/26/2010  
DATE

STATE OF MA  
COUNTY OF Middlesex } ss

On this 06 day of JULY, 2010, before me personally came the above named Ernesto Carlos Martinez Villalpando who is personally known by me or proved to me on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment, and who acknowledged to me that he/she executed the same of his/her own free will for the use and purposes therein set forth.



[Signature]  
NOTARY PUBLIC  
My Commission Expires: 10/28/16

\_\_\_\_\_  
Inventor's Signature  
Jeff Anthony Weber  
Inventor's Printed Name

\_\_\_\_\_  
DATE

STATE OF \_\_\_\_\_ }  
COUNTY OF \_\_\_\_\_ } ss

On this \_\_\_\_\_ day of \_\_\_\_\_, before me personally came the above named Jeff Anthony Weber who is personally known by me or proved to me on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment, and who acknowledged to me that he/she executed the same of his/her own free will for the use and purposes therein set forth.

\_\_\_\_\_  
NOTARY PUBLIC  
My Commission Expires: \_\_\_\_\_

Joint

ASSIGNMENT

WHEREAS, we, **Hugh M. Herr, Ernesto C. Martinez-Villalpando and Jeff Anthony Weber**, have invented a certain improvement in **Powered Artificial Knee with Agonist-Antagonist Actuation** 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. **12/697,894** filed **February 1, 2010**;
- ☐ 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. **8,500,823**.

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 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

Witness Signature \_\_\_\_\_

Print Witness Name \_\_\_\_\_

Address \_\_\_\_\_

Witness Signature \_\_\_\_\_

Print Witness Name \_\_\_\_\_

Address \_\_\_\_\_

Inventor \_\_\_\_\_ Date \_\_\_\_\_  
Ernesto C. Martinez-Villalpando

Address \_\_\_\_\_  
16 Marney Street, Apt. 1  
Cambridge, Massachusetts 02141

Witness Signature \_\_\_\_\_

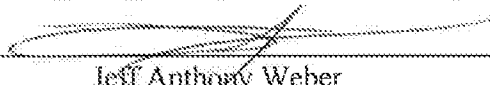
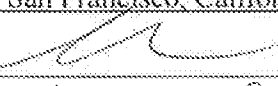
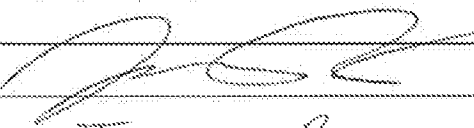
Print Witness Name \_\_\_\_\_

Address \_\_\_\_\_

Witness Signature \_\_\_\_\_

Print Witness Name \_\_\_\_\_

Address \_\_\_\_\_

Inventor		Date	<u>7/20/15</u>
Jeff Anthony Weber			
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	<u>San Francisco, California 94110</u>		
Witness Signature			
Print Witness Name	<u>Michelle Crum</u>		
Address	<u>SF, CA</u>		
Witness Signature			
Print Witness Name	<u>JUSTINE RANA</u>		
Address	<u>SF, CA</u>		