# 506469142 01/26/2021

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6515918

| SUBMISSION TYPE:  |  | NEW ASSIGNMENT  | NEW ASSIGNMENT  |  |  |  |  |  |  |
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| ATURE OF CONVEY   | ANCE:  | ASSIGNMENT  |   |  |  |  |  |  |  |
| CONVEYING PARTY   | DATA   |   |   |  |  |  |  |  |  |
|   |  | Name  | Execution Date  |  |  |  |  |  |  |
| OTTO BOCK HEALTH  | CARE NORT  | TH AMERICA  | 12/31/2019  |  |  |  |  |  |  |
| RECEIVING PARTY D   | ΑΤΑ  |   |   |  |  |  |  |  |  |
| Name:   | OTTO BC  | TO BOCK HEALTHCARE LP   |   |  |  |  |  |  |  |
| Street Address:   | 11501 AL   | ALTERRA PARKWAY   |   |  |  |  |  |  |  |
| Internal Address:   | SUITE 60   |   |   |  |  |  |  |  |  |
| City:   | AUSTIN   | TIN   |   |  |  |  |  |  |  |
| State/Country:  | TEXAS  |   |   |  |  |  |  |  |  |
| Postal Code:  | 78758  |   |   |  |  |  |  |  |  |
| CORRESPONDENCE  | DATA   |   |   |  |  |  |  |  |  |
| Fax Number:<br><i>Correspondence will<br/>using a fax number, i</i><br>Phone:<br>Email:   | f <b>provided; i</b><br>(9 <sup>.</sup><br>Iel               | <b>he e-mail address first; if that is unsuc</b><br><b>if that is unsuccessful, it will be sent v</b><br>19) 636-4767<br>hamawy@kdbfirm.com, docketing@kdbf<br>ACVINSKY DAISAK BLUNI PLLC   | ia US Mail.   |  |  |  |  |  |  |
| Fax Number:<br><i>Correspondence will<br/>using a fax number, i</i><br>Phone:<br>Email:<br>Correspondent Name   | f provided; i<br>(9 <sup>.</sup><br>lel<br>e: KA             | <b>if that is unsuccessful, it will be sent v</b><br>19) 636-4767   | ia US Mail.   |  |  |  |  |  |  |
| Fax Number:<br><i>Correspondence will<br/>using a fax number, i</i><br>Phone:   | f provided; i<br>(9 <sup>.</sup><br>lel<br>e: KA<br>26       | <b>if that is unsuccessful, it will be sent v</b><br>19) 636-4767<br>hamawy@kdbfirm.com, docketing@kdbf<br>ACVINSKY DAISAK BLUNI PLLC   | ia US Mail.   |  |  |  |  |  |  |
| Fax Number:<br><i>Correspondence will<br/>using a fax number, i</i><br>Phone:<br>Email:<br>Correspondent Name<br>Address Line 1:<br>Address Line 4:   | f provided; i<br>(9 <sup>-</sup><br>lel<br>e: KA<br>26<br>CA | <b>if that is unsuccessful, it will be sent v</b><br>19) 636-4767<br>hamawy@kdbfirm.com, docketing@kdbf<br>ACVINSKY DAISAK BLUNI PLLC<br>601 WESTON PARKWAY, SUITE 103  | ia US Mail.   |  |  |  |  |  |  |
| Fax Number:<br><i>Correspondence will<br/>using a fax number, i</i><br>Phone:<br>Email:<br>Correspondent Name<br>Address Line 1:<br>Address Line 4:   | f provided; i<br>(9<br>lel<br>e: KA<br>26<br>CA<br>NUMBER:   | if that is unsuccessful, it will be sent v<br>19) 636-4767<br>hamawy@kdbfirm.com, docketing@kdbf<br>ACVINSKY DAISAK BLUNI PLLC<br>501 WESTON PARKWAY, SUITE 103<br>ARY, NORTH CAROLINA 27513  | ia US Mail.   |  |  |  |  |  |  |
| Fax Number:<br><i>Correspondence will<br/>using a fax number, i</i><br>Phone:<br>Email:<br>Correspondent Name<br>Address Line 1:<br>Address Line 4:<br>ATTORNEY DOCKET I  | f provided; i<br>(9<br>lel<br>e: KA<br>26<br>CA<br>NUMBER:   | if that is unsuccessful, it will be sent v<br>19) 636-4767<br>hamawy@kdbfirm.com, docketing@kdbf<br>ACVINSKY DAISAK BLUNI PLLC<br>501 WESTON PARKWAY, SUITE 103<br>ARY, NORTH CAROLINA 27513<br>8120BIO0104USC1   | ia US Mail.   |  |  |  |  |  |  |
| Fax Number:<br><i>Correspondence will<br/>using a fax number, i</i><br>Phone:<br>Email:<br>Correspondent Name<br>Address Line 1:  | f provided; i<br>(9<br>lel<br>e: KA<br>26<br>CA<br>NUMBER:   | if that is unsuccessful, it will be sent v<br>19) 636-4767<br>hamawy@kdbfirm.com, docketing@kdbf<br>ACVINSKY DAISAK BLUNI PLLC<br>601 WESTON PARKWAY, SUITE 103<br>ARY, NORTH CAROLINA 27513<br>8120BIO0104USC1<br>ANTONIA DRAGOTTA                       | ia US Mail.   |  |  |  |  |  |  |
| Fax Number:<br><i>Correspondence will</i><br><i>using a fax number, i</i><br>Phone:<br>Email:<br>Correspondent Name<br>Address Line 1:<br>Address Line 4:<br>Address Line 4:<br>Address Line 4:<br>ATTORNEY DOCKET I<br>IAME OF SUBMITTER<br>SIGNATURE:<br>DATE SIGNED:<br>Total Attachments: 7<br>ource=Assignment Agr<br>ource=Assignment Agr | reement - OB<br>reement - OB<br>reement - OB                 | if that is unsuccessful, it will be sent v<br>19) 636-4767<br>hamawy@kdbfirm.com, docketing@kdbf<br>ACVINSKY DAISAK BLUNI PLLC<br>501 WESTON PARKWAY, SUITE 103<br>ARY, NORTH CAROLINA 27513<br>8120BIO0104USC1<br>ANTONIA DRAGOTTA<br>/Antonia Dragotta/ | <i>ia US Mail.</i><br>irm.com<br>bits#page1.tif<br>bits#page2.tif<br>bits#page3.tif |  |  |  |  |  |  |

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#### ASSIGNMENT AGREEMENT

This Assignment Agreement (this "<u>Assignment</u>") is effective as of December 31, 2019 (the "<u>Effective Date</u>") by and between Otto Bock HealthCare North America, Inc., a Minnesota corporation, with its principal place of business at 11501 Alterra Parkway, Suite 600, Austin, TX 78758 (the "<u>Assignor</u>") and Otto Bock HealthCare LP, a Minnesota limited partnership, with its principal place of business at 11501 Alterra Parkway, Suite 600, Austin, TX 78758 (the "<u>Assigner</u>").

WHEREAS, Assignor is the legal and beneficial owner of certain assets, including Intellectual Property (as such term is defined herein and set forth on Exhibit A) and legal agreements pursuant to that certain BMT Agreement of Merger dated December 11, 2019 (the "<u>BMT Merger Agreement</u>") whereby Assignor merged with BionX Medical Technologies, Inc., a Delaware corporation with Assignor surviving the merger;

WHEREAS, Assignor has agreed to transfer, convey, assign and deliver to Assignee, and Assignee has agreed to acquire and accept from Assignor, all of Assignors' right, title and interest in and to all the Intellectual Property (as such term is defined herein and as set forth on <u>Exhibit A</u>) and legal agreements as set forth on <u>Exhibit B</u>;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties hereby agree as follows:

- 1 "Intellectual Property" means any and all of the following that Assignor assumed and received by and through the Merger Agreement as they exist throughout the world: (a) patents, patent applications, patent disclosures and inventions, (b) trademarks, service marks, trade dress, trade names, logos and corporate names (in each case, whether registered or unregistered) and registrations and applications for registration thereof together, to the extent applicable, with all of the goodwill associated therewith, (c) copyrights (registered or unregistered) and registrations and applications for registration thereof, (d) computer software, data, data bases and documentation thereof, (e) trade secrets and other confidential information (including, without limitation, ideas, formulas, compositions, inventions (whether patentable or unpatentable and whether or not reduced to practice), know-how, manufacturing and production processes and techniques, research and development information, drawings, specifications, designs, plans, proposals, technical data, copyrightable works, financial and marketing plans and customer and supplier lists and information), (f) World Wide Web addresses and domain name registrations, (g) works of authorship including, without limitation, computer programs, source code and executable code, whether embodied in software, firmware or otherwise, documentation, designs, files, records, data and mask works and any rights in semiconductor masks, layouts, architectures or topography, and (h) goodwill. franchises, licenses, permits, consents, approvals and claims of infringement and misappropriations against third parties, including but not limited to the Intellectual Property set forth on Exhibit A.
- 2. Assignor grants, sells, assigns, transfers and conveys to Assignee, its successors, assigns and legal representatives, all right, title and interest in, to and under Assignor's Intellectual Property throughout the United States of America, its territories and all foreign countries,

including the right to claim priority under the applicable laws of the United States, any applicable foreign country's law and all applicable international conventions, along with all applicable rights to sue for infringement of any Intellectual Property, whether the basis for such suits arise prior to or subsequent to the date of this Assignment, the same to be held and enjoyed by Assignee, its successors, assigns and other legal representatives, from and after the date herein above written, as fully and entirely as the same would have been held and enjoyed by Assignor had this Assignment not been made.

- 3. Assignor does hereby sell, assign and transfer to Assignee, its successors, assigns, and legal representatives, the full and exclusive right to said invention and said application and to any and all inventions described in said invention and said application and to any and all inventions described in said application for the United States, its territorial possessions and all foreign countries, and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States, its territorial possessions and all foreign countries; and in and to any and all provisionals, continuations-in-part, continuations, divisions, substitutes, reissues, extensions thereof, and all other applications for Letters Patent relating thereto which have been or shall be filed in the United States, its territorial possession and/or any foreign countries, and all rights, together with all priority rights, under any of the international conventions, unions, agreements, act, and treaties, including all future conventions, unions, agreements, acts, and treaties;
- 4. Assignor hereby authorizes the Commissioner of Patents and Trademarks of the United States and other empowered officials of the United States Patent and Trademark Office, all appropriate domain name registrars and empowered officials thereof, all empowered officials of the United States Copyright Office, and similarly empowered officials of the equivalent foreign trademark, copyright or other applicable offices to transfer all registrations or applications for the Intellectual Property to Assignee as assignee of the entire right, title and interest therein or otherwise as Assignee may direct, in accordance with this Assignment, and to issue Assignee all registrations which may have or may issue, in accordance with this Assignment.
- 5. Assignor further hereby covenants and agrees that Assignor will, at any time, upon request, execute and deliver any and all documents that may be necessary or desirable to perfect the right, title and ownership of said Intellectual Property to Assignee, its successors, assigns or other legal representatives and that if Assignee, its successors, assigns or other legal representatives shall desire to file any type of intellectual property applications or to secure any other such ownership protection, Assignor will, upon request, sign all papers, make all rightful oaths and do all lawful acts requisite for the filing of any type of intellectual property applications or efforts to secure any other such ownership protection, without further compensation, but at the expense of said Assignee, its successors, or other legal representatives.
- 6. Assignor hereby assigns the legal agreements set forth in Exhibit B.
- 7. This Assignment shall be binding upon and shall inure to the benefit of the parties hereto and their respective successors and assigns.

8. This Assignment may be executed in counterparts, and when so executed, each counterpart shall be deemed an original, and said counterparts shall constitute one and the same instrument.

[Signature Page Follows]

IN WITNESS WHEREOF, this Assignment has been duly executed in a manner appropriate thereto by the undersigned whose titles are supplied below and who are each authorized to act on behalf of their respective party and this Assignment shall become effective for all purposes as of the Effective Date in the first paragraph hereof.

#### ASSIGNOR:

OTTO BOCK HEALTHCARE NORTH AMERICA, INC.

By: Name: Andreas Schultz Title: Chief Financial Officer

ASSIGNEE:

OTTO BOCK HEALTHCARE LP

By: Name: Andreas Solutiz Title: Chief Financial Officer

[Signature Page to Assignment Agreement]

## Exhibit A

Intellectual Property

[See Attached Exhibit A]

### Exhibit B

U.S. Army Medical Research Acquisition Activity (USAMRAA) Grant W81XWH-16-2-0049: A Battlefield-Hardened Robotic Ankle with Neuromuscular Efferent and Afferent User Interface.

| Dur ref  | kdb ref                              | Title <u>Ex</u>   | <u>(hibit A</u><br>Status      | Filing No.                                  | Filing date Publ.                                    | No           | Publ. Date                         | Reg. No.                      | Reg. Date                            | end of term                         |
|--|--------------------------------------|---|--------------------------------|---|--|--------------|------------------------------------|-------------------------------|--------------------------------------|-------------------------------------|
| A-2017-107 US  | KUDTEI                               | License agreement BionX Medical Technologies, Inc. & M.I.T. (Massachusetts<br>Institute)  | signed                         | Filling NO.                                 | ringuate Publ  | NO.          | FUDL Date                          | Reg. No.                      | Keg. Date                            | end of certif                       |
| P-2017-084 USI<br>P-2017-084 USI<br>P-2017-084 USI CON                 |                                      | institute<br>BionX - Hybrid Terrain-Adaptive Lower-Extremity Systems<br>2. BionX - Hybrid Terrain-Adaptive Lower-Extremity Systems  | signed<br>granted<br>published | 12/552,013<br>15/095.616                    | 9/1/2009 US 20<br>4/11/2016 US 20                    |              | 7/15/2010                          | 9345592                       | 5/24/2016                            | 1/21/2030<br>9/1/2029               |
| P-2017-084 US II   |                                      | - bionA - Hybrid Terrain-Adaptive Lower-Extremity Systems<br>BionX - Hybrid Terrain-Adaptive Lower-Extremity Systems<br>Otto Bock - Hybrid Terrain-Adaptive Lower-Extremity Systems                           | filed<br>filed                 | 12/552,021<br>15/927,834                    | 9/1/2009 US 20<br>3/21/2018                          | 10-0114329   | 5/6/2010                           |                               |                                      | 9/1/2029                            |
| P-2017-084 US III<br>P-2017-084 US III CIP                             | 0104C<br>1D4CP                       | BionX - Hybrid Terrain-Adaptive Lower-Extremity Systems<br>BionX - Hybrid Terrain-Adaptive Lower-Extremity Systems  | aband oned<br>aband oned       | 12/552,028<br>12/872,425                    | 9/1/2009 US 20<br>8/31/2010 US 20                    | 11-0082566   | 7/8/2010<br>4/7/2011               |                               |                                      | 9/1/2029<br>9/1/2029                |
| P-2017-084 US III CIP CON<br>P-2017-084 US IV                          | 104E                                 | BionX - Hybrid Terrain-Adaptive Lower-Extremity Systems<br>BionX - Hybrid Terrain-Adaptive Lower-Extremity Systems  | filed<br>granted               | 14/034,005<br>12/552,036                    | 9/23/2013 US 20<br>9/1/2009 US 20                    | 10-0113980   | 3/20/2014<br>5/6/2010              |                               | 4/16/2013                            | 9/1/2029<br>7/21/2031               |
| P-2017-084 US IV CON I<br>P-2017-084 US IV CON II                      | 104E C2                              | 0 BionX - Hybrid Terrain-Adaptive Lower-Extremity Systems<br>BionX - Hybrid Terrain-Adaptive Lower-Extremity Systems  | granted                        | 13/832,491<br>14/034,907                    | 3/15/2013 US 20<br>9/1/2009 US 20                    | 14-0081421   | 11/28/2013<br>3/20/2014            | 8900325                       | 12/15/2015<br>12/2/2014              | 9/1/2029<br>9/1/2029                |
| P-2017-084 US IV CON III<br>P-2017-084 US IV CON IV<br>P-2017-084 US V | 8120BI00105US0                       | <ol> <li>BionX - Hybrid Terrain-Adaptive Lower-Extremity Systems</li> <li>BionX - Hybrid Terrain-Adaptive Lower-Extremity Systems</li> <li>BionX - Hybrid Terrain-Adaptive Lower-Extremity Systems</li> </ol> | granted<br>filed<br>granted    | 14/034,956<br>15/141,313<br>12/551,845      | 9/24/2013 US 20<br>4/28/2016 US 20<br>9/1/2009 US 20 | 16-0235557   | 3/20/2014<br>8/18/2016<br>7/8/2010 |                               | 5/31/2016                            | 9/1/2029<br>9/1/2029<br>9/1/2029    |
| P-2017-084 US V CON<br>P-2017-084 US V CON<br>P-2017-084 WO/CA         |                                      | BionX - Hybrid Terrain-Adaptive Lower-Extremity Systems<br>BionX - Hybrid Terrain-Adaptive Lower-Extremity Systems<br>BionX - Hybrid Terrain-Adaptive Lower-Extremity Systems                                 | filed<br>published             | 15/364,311<br>2736079                       | 9/1/2009 03/20<br>11/30/2016 US 20<br>9/1/2009 CA 27 | 17-0086991   | 3/30/2017<br>3/11/2010             | 9334922                       | 1/31/201/                            | 9/1/2029<br>9/1/2029<br>9/1/2029    |
| P-2017-084 WO/CN<br>P-2017-084 WO/EP DIV                               | 104CN                                | BionX - Hybrid Terrain-Adaptive Lower-Extremity Systems<br>D BionX - Hybrid Terrain-Adaptive Lower-Extremity Systems  | published<br>published         | 200980142846.6<br>17162185.7                | 9/1/2009 CN 10<br>9/1/2009 EP321                     | 2202613 A    | 9/28/2011<br>9/20/2017             |                               |                                      | 9/1/2029<br>9/1/2029                |
| P-2017-084 WO/EP/AT<br>P-2017-084 WO/EP/ <del>CH</del>                 | 104EP (AT) correc                    | :: BionX - Hybrid Terrain-Adaptive Lower-Extremity Systems<br>BionX - Hybrid Terrain-Adaptive Lower-Extremity Systems   | granted<br>granted             | 09792133.2<br>09792133.2                    | 9/1/2009 EP234<br>9/1/2009 EP234                     | 49120        | 8/3/2011<br>8/3/2011               |                               | 2/23/2017<br>3/22/2017               | 9/1/2029<br>9/1/2029                |
| P-2017-084 WO/EP/DE<br>P-2017-084 WO/EP/FR                             | 8120BI00100FR                        | BionX - Hybrid Terrain-Adaptive Lower-Extremity Systems<br>BionX - Hybrid Terrain-Adaptive Lower-Extremity Systems  | granted<br>granted             | 09792133.2<br>09792133.2                    | 9/1/2009 EP234<br>9/1/2009 EP234                     | 49120        | 8/3/2011<br>8/3/2011               | 2349120                       | 3/22/2017<br>3/22/2017               | 9/1/2029<br>9/1/2029                |
| P-2017-084 WO/EP/GB<br>P-2017-084 WO/EP/HK                             |                                      | BionX - Hybrid Terrain-Adaptive Lower-Extremity Systems   | granted<br>filed               | 09792133.2<br>12101003.9                    | 9/1/2009 EP234<br>2/2/2012 EP234                     | 49120        | 8/3/2011<br>8/3/2011               |                               | 3/22/2017                            | 9/1/2029<br>9/1/2017                |
| P-2017-084 WO/EP/IE<br>P-2017-084 WO/EP/SE<br>P-2017-084 WO/IN         | 104EP (IE)<br>8120BIO0100SE<br>104IN | BionX - Hybrid Terrain-Adaptive Lower-Extremity Systems<br>BionX - Hybrid Terrain-Adaptive Lower-Extremity Systems<br>BionX - Hybrid Terrain-Adaptive Lower-Extremity Systems                                 | granted<br>granted<br>filed    | 09792133.2<br>09792133:2<br>1522/DELNP/2011 | 9/1/2009 EP234<br>9/1/2009 EP234<br>9/1/2009         |              | 8/3/2011<br>8/3/2011               |                               | 2/23/2017<br>3/22/2017               | 9/1/2029<br>9/1/2029<br>9/1/2029    |
| P-2017-084 WO/JP<br>P-2017-084 WO/JP<br>P-2017-084 WO/KR               | 104JP<br>104KR                       | BionX - Hybrid Terrain-Adaptive Lower-Extremity Systems<br>BionX - Hybrid Terrain-Adaptive Lower-Extremity Systems  | published<br>published         | 2011-526132<br>10-2011-7007776              | 9/1/2009 JP 201<br>9/1/2009 JP 201<br>9/1/2009 10-20 |              | 1/26/2012<br>6/30/2011             |                               |                                      | 9/1/2029<br>9/1/2029<br>9/1/2029    |
| ·  |                                      | BionX - Implementing a stand-up sequence using a lower-extremity prosthesis or  |                                |   |  |              |                                    |                               |                                      |                                     |
| P-2017-085 WO/CA   | 105CA                                | orthosis<br>BionX - Implementing a stand-up sequence using a lower-extremity prosthesis or  | published                      | 2772620                                     | 8/31/2010 CA277                                      |              | 3/3/2011                           |                               |                                      | 8/31/2030                           |
| P-2017-085 WO/CN   | 105CN                                | orthosis<br>BionX - Implementing a stand-up sequence using a lower-extremity prosthesis or  | published                      | 201080018597.7                              | 8/31/2010 CN 10                                      |              | 8/15/2012                          |                               |                                      | 8/31/2030                           |
| P-2017-085 WO/EP   | 105EP<br>105IN                       | orthosis<br>BionX - Implementing a stand-up sequence using a lower-extremity prosthesis or<br>orthosis  | lapsed<br>filed - still        | 10763479.2<br>2375/DELNP/2012               | 8/31/2010 EP247<br>8/31/2010                         | 73140        | 3/3/2011                           |                               |                                      | 8/31/2030<br>8/31/2030              |
| P-2017-085 WO/IN   | 105JP                                | BionX - Implementing a stand-up sequence using a lower-extremity prosthesis or<br>orthosis  | alive?<br>published            | 2012-527969                                 | 8/31/2010 JP 201                                     | 12 502026    | 1/31/2013                          |                               |                                      | 8/31/2030                           |
| P-2017-085 WO/KR   | 105KR                                | BionX - Implementing a stand-up sequence using a lower-extremity prosthesis or<br>orthosis  | published                      | 10-2012-7008175                             | 8/31/2010 KR 10                                      |              |                                    |                               |                                      | 8/31/2030                           |
| ·  |                                      | BionX - CONTROLLING POWER IN A PROSTHESIS OR ORTHOSIS BASED ON PREDICTED  |                                |   |  |              |                                    |                               |                                      |                                     |
| P-2017-086 US  | 106                                  | WALKING SPEED OR SURROGATE<br>BionX - CONTROLLING POWER IN A PROSTHESIS OR ORTHOSIS BASED ON PREDICTED  | lapse d                        | 13/079,564                                  | 4/4/2011 US 20                                       |              | 12/1/2011                          |                               |                                      | 4/4/2031                            |
| P-2017-086 US CON  | 8120BI00112US                        | BIONX - CONTROLLING POWER IN A PROSTHESIS OR ORTHOSIS BASED ON PREDICTED  | granted                        | 14/136,344                                  | 12/20/2013 US 20                                     |              | 4/24/2014                          | 9693883                       | 7/4/2017                             | 4/4/2031                            |
| P-2017-086 US CON II   | 8120BIO0112C1                        | WALKING SPEED OR SURROGATE  | filed                          | 15/377,360                                  | 4/4/2011 US 20                                       | 17-0143516   | 5/25/2017                          |                               |                                      | 4/4/2031                            |
|  |                                      | data missing - Ankle torque models like those described in the IP will be employed to<br>provide the "positive torque feedback" that will create the reflexive torque response in                             |                                |   |  |              |                                    |                               |                                      |                                     |
| P-2017-087   | 107                                  | the arkle and hip. Use of these is an essential part of creating a biomimetic response  | please advise                  |   |  |              |                                    |                               |                                      |                                     |
| P-2017-088 US  | 108                                  | BionX - Controlling torque in a prosthesis or orthosis based on a deflection of series<br>elastic elem  | lapse d                        | 13/079,571                                  | 4/4/2011 US 20                                       | 11-0295385   | 12/1/2011                          |                               |                                      | 4/4/2031                            |
| P-2017-088 US CON  | 8120BIQ0106US                        |   | in appeal                      | 14/150,840                                  | 1/9/2014 US 20                                       | 14-0121782   | 5/1/2014                           |                               |                                      | 4/4/2031                            |
| P-2017-088 US CON II   | 8120BI00106C1                        | BionX - Controlling torque in a prosthesis or orthosis based on a deflection of series<br>elastic elem<br>BionX - Controlling torque in a prosthesis or orthosis based on a deflection of series              | filed                          | 15/413,879                                  | 1/24/2017 US 20                                      | 17-0216055   | 8/3/2017                           |                               |                                      | 4/4/2031                            |
| P-2017-088 WO/CA   | 108CA                                | elastic elem<br>BionX - Controlling torque in a prosthesis or orthosis based on a deflection of series  | published                      | 2795153                                     | 4/4/2011 CA 2,3                                      | 795,153      | 10/13/2011                         |                               |                                      | 4/4/2031                            |
| P-2017-088 WO/CN   | 108CN                                | elastic elem<br>BionX - Controlling torque in a prosthesis or orthosis based on a deflection of series  | published                      | 201180023930.3                              | 4/4/2011 CN102                                       | 2892388      | 1/23/2013                          |                               |                                      | 4/4/2031                            |
| P-2017-088 WO/EP   | 8120BIO0106EP                        | elastic elem<br>BionX - Controlling torque in a prosthesis or orthosis based on a deflection of series  | lapse d                        | 11713970.9                                  | 4/4/2011 EP255                                       | 55716        | 2/13/2013                          |                               |                                      | 4/4/2031                            |
| P-2017-088 WO/IN   | 108IN                                | elastic elem<br>BionX - Controlling torque in a prosthesis or orthosis based on a deflection of series  | filed                          | 8750/DELNP/2012                             | 4/4/2011   |              |                                    |                               |                                      | 4/4/2031                            |
| P-2017-088 WO/JP<br>P-2017-088 WO/KR                                   | 108JP                                | elastic elem<br>BionX - Controlling torque in a prosthesis or orthosis based on a deflection of series<br>elastic elem  | published<br>lapsed            | 2013-503815                                 | 4/4/2011 JP 201<br>4/4/2011 KR 10                    |              | 6/20/2013<br>8/30/2013             |                               |                                      | 4/4/2031<br>4/4/2031                |
| P-2017-089 US  | 8120BI00107US                        | BionX - Powered Joint Orthosis  | granted                        | 13/347,443                                  | 1/10/2012 US 20                                      |              | 10/11/2012                         | 9,839,552                     | 12/12/2017                           | 1/10/2032                           |
| P-2017-089 US CON<br>P-2017-089 WO/EP                                  |                                      | BionX - Powered Joint Orthosis<br>BionX - Powered Joint Orthosis  | filed<br>filed                 | 15/653,986<br>12701042.9                    | 7/19/2017<br>1/12/2012 EP266                         | 53267        | 11/20/2013                         |                               |                                      | 1/10/2032<br>1/10/2032              |
| P-2017-090 US<br>P-2017-090 US CON                                     | 110                                  | BionX - Controlling powered human augmentation devices<br>BionX - Controlling powered human augmentation devices  | lapse d<br>file d              | 13/349,216<br>14/090,359                    | 1/12/2012 US 20<br>11/26/2013 US 20                  |              | 10/11/2012<br>3/27/2014            |                               |                                      | 1/12/2032<br>1/12/2032              |
| P-2017-090 WO/EP   | 8120BI00108EP                        | BionX - Controlling powered human augmentation devices  | filed                          | 12701403.3                                  | 1/12/2012 EP266                                      |              | 7/19/2012                          |                               |                                      | 1/12/2032                           |
| P-2017-091 US<br>P-2017-091 US DIV                                     |                                      | BionX - Terrain adaptive powered joint orthosis<br>BionX - Terrain adaptive powered joint orthosis  | granted<br>filed               | 13/356,230<br>15/600,930                    | 1/23/2012 US 20<br>5/22/2017                         | 12-0259431   | 10/11/2012                         | 9687377                       | 6/27/2017                            | 5/17/2034                           |
| P-2017-091 WO  | 111PC                                | BionX - Terrain adaptive powered joint orthosis   | abandoned                      | PCT/US2012/022217                           | 1,E3,E01E 110 E                                      | 012/100250   | 7/26/2012                          |                               |                                      |                                     |
| P-2017-092 US<br>P-2017-092 US CON                                     | 112<br>112C1                         | BionX - Variable-mechanical-impedance artificial legs<br>BionX - Variable-mechanical-impedance artificial legs  | lapse d<br>granted             | 10/613,499<br>13/363,820                    | 7/3/2003 US 20<br>7/3/2003                           |              |                                    | 8551184                       | 10/8/2013                            | 7/3/2023<br>7/3/2023                |
| P-2017-092 US CON II<br>P-2017-092 US CON II CON                       |                                      | BionX - Variable-mechanical-impedance artificial legs<br>BionX - Variable-mechanical-impedance artificial legs  | granted<br>granted             | 14/090,556<br>14/804,542                    | 11/26/2013 US 20<br>7/21/2015 US 20                  |              | 3/27/2014<br>3/10/2016             |                               | 7/21/2015<br>6/27/2017               | 7/3/2023<br>7/3/2023                |
| P-2017-093 WO/US<br>P-2017-093 WO/US CON                               |                                      | iWalk - Biomimetic transfemoral prosthesis<br>iWalk - Biomimetic transfemoral prosthesis  | granted<br>published           | 14/355,657<br>15/459,565                    | 5/1/2014 US 20<br>3/15/2017 US 20                    |              | 10/2/2014<br>8/31/2017             | 9737419                       | 8/22/2017                            | 11/2/2032<br>11/2/2032              |
| P-2017-094 US  | 8120BI00110US                        | iWalk - Biomimetic joint actuators  | granted                        | 13/417,949                                  | 3/12/2012 US 20                                      |              | 11/8/2012                          | 9060883                       | 6/23/2015                            | 3/12/2032                           |
| P-2017-094 US DIV  | 8120BIO0110D1<br>8120.0110C          | iWalk - Biomimetic joint actuators<br>BionX - Biomimetic joint actuators  | granted<br>filed               | 14/734,662<br>15/877,680                    | 6/9/2015 US20<br>1/23/2018                           | 15-0265427   | 9/24/2015                          | 9,872,782                     | 1/23/2018                            | 3/12/2032                           |
| P-2017-095 WO/CA   |                                      | Walk - Prosthetic, orthotic or exoskeleton device   | published                      | 2876187                                     | 6/12/2013 CA 28<br>6/12/2013 EP285                   |              | 12/19/2013                         |                               |                                      | 6/12/2033                           |
| P-2017-095 WO/EP<br>P-2017-095 WO/US                                   |                                      | iWalk - Prosthetic, orthotic or exoskeleton device<br>iWalk - Prosthetic, orthotic or exoskeleton device  | lapsed<br>published            | 14/407,656                                  | 6/12/2013 EP285<br>6/12/2013 US20                    |              | 4/15/2015<br>5/7/2015              |                               |                                      | 6/12/2033<br>6/12/2033              |
|  | 8120BI00126                          | BionX - TORQUE MEASURING SPRING FOR A PROSTHETIC DEVICE   | filed                          | 15/694,835                                  | 9/3/2017   |              |                                    |                               |                                      |                                     |
|  |                                      | Licensed patents from M.I.T.  |                                |   |  |              |                                    |                               |                                      |                                     |
| -2027-086  |                                      | - Nea nabelny ar sophesi adesno (US-2,555,784, 42,542,555 - Resisei e. Nationes   | w piaace adular                | sat seenboned in ter                        | eost.  |              |                                    |                               |                                      |                                     |
| L-2017-097 US  |                                      | M.I.T Ankle Foot Orthosis   | granted                        | 10/671,329                                  | 9/25/2003 US 20                                      |              | 3/31/2005                          |                               | 12/13/2011                           | 9/25/2023                           |
| L-2017-097 US CON I<br>L-2017-097 US CON II<br>L-2017-097 US CON III   |                                      | M.I.T Ankle Foot Orthosis<br>M.I.T Ankle Foot Orthosis  | granted<br>granted             | 13/299,953<br>13/363,993<br>13/364,010      | 9/25/2003 US 20<br>9/25/2003<br>9/25/2003            | 12/0136459   | 3/31/2012                          | 8808214<br>8287477<br>8376971 | 8/19/2014<br>10/16/2012<br>2/19/2013 | 9/25/2023<br>9/25/2023<br>9/25/2023 |
| L-2017-097 US CON IV<br>L-2017-097 US CON V                            |                                      | M.I.T Ankle Foot Orthosis<br>M.I.T Ankle Foot Orthosis<br>M.I.T Ankle Foot Orthosis   | granted<br>granted<br>granted  | 13/765,998<br>14/322,300                    | 9/25/2003<br>9/25/2003<br>9/25/2003 US 20            | 15127117     |                                    | 8551029                       | 10/8/2013<br>6/6/2017                | 9/25/2023<br>9/25/2023<br>9/25/2023 |
| 1-2012-002-000 CON V-0004  |                                      | M 11 Nollis Fron Dobasis  | pablishee                      | 15/584,985                                  | N/25/2018 0596                                       | 07 0231254 A |                                    |                               | -,-,                                 | 8/25/0500                           |
| L-2017-098 US I  |                                      | M.I.T Articial human limbs and joints employing actuators, springs, and variable-<br>damper elements  | abandoned                      | 11/395,448                                  | 3/31/2006 US 20                                      | 106-0249315  | 11/9/2006                          |                               |                                      | 3/31/2026                           |
| L-2017-098 US II   |                                      | M.I.T Articial human limbs and joints employing actuators, springs, and variable-<br>damper elements  | abandoned                      | 11/495,140                                  | 7/29/2006 US 20                                      | 107-0043449  | 2/22/2007                          |                               |                                      | 3/31/2026                           |
| L-2017-098 US III  |                                      | M.I.T Articial human limbs and joints employing actuators, springs, and variable-<br>damper elements  | granted                        | 11/499,853                                  | 8/4/2006 US 20                                       | 107-0016329  | 1/18/2007                          | 7313463                       | 12/25/2007                           | 3/31/2026                           |
| L-2017-098 US IV   |                                      | M.I.T Articial human limbs and joints employing actuators, springs, and variable-<br>damper elements<br>M.I.T Articial human limbs and joints employing actuators, springs, and variable-                     | abandoned                      | 11/600,291                                  | 11/15/2006 US 20                                     | 107-0123997  | 5/31/2007                          |                               |                                      |                                     |
| L-2017-098 US IX   |                                      | MLT Articial human limbs and joints employing actuators, springs, and variable-<br>damper elements<br>MLT Articial human limbs and joints employing actuators, springs, and variable-                         | filed                          | 13/970,094                                  | 6/12/2008 US 20                                      | 14/0088729   | 3/27/2014                          |                               |                                      | 3/31/2026                           |
| L-2017-098 US V  |                                      | damper elements<br>M.I.T Articial human limbs and joints employing actuators, springs, and variable-  | abandoned                      | 11/642,993                                  | 12/19/2006 US 20                                     |              | 7/12/2007                          |                               |                                      |                                     |
| L-2017-098 US VI   |                                      | damper elements<br>M.I.T Articial human limbs and joints employing actuators, springs, and variable-  | filed                          | 12/859,765                                  | 11/15/2006 US 20                                     |              | 2/17/2011                          |                               |                                      | 3/31/2026                           |
| L-2017-098 US VII  |                                      | damper elements<br>M.I.T Articial human limbs and joints employing actuators, springs, and variable-  | granted                        | 12/608,627                                  | 12/19/2006 US 20                                     |              | 9/23/2010                          |                               | 10/28/2014                           | 3/31/2026                           |
| L-2017-098 US VIII   |                                      | damper elements<br>M.I.T Articial human limbs and joints employing actuators, springs, and variable-<br>damper elements   | granted                        | 12/157,727                                  | 6/12/2008 US 20<br>2/1/2010 US 20                    |              | 10/20/2011                         |                               | 8/20/2013<br>8/6/2013                | 3/31/2026<br>3/31/2026              |
| L-2017-098 US X  |                                      | damper elements<br>M.I.T Articial human limbs and joints employing actuators, springs, and variable-<br>damper elements   | granted<br>filed               | 12/697,894                                  | 2/1/2010 US 20<br>2/1/2010 US 20                     |              | 2/13/2010                          |                               | 8/6/2013                             | 3/31/2026                           |
| L-2017-098 US XI   |                                      | M.I.T Articial human limbs and joints employing actuators, springs, and variable-<br>damper elements  | granted                        | 12/698,128                                  | 2/1/2010 US 20                                       |              | 12/23/2010                         |                               | 10/8/2015                            | 3/31/2026                           |
| L-2017-098 US XIII   |                                      | M.I.T Articial human limbs and joints employing actuators, springs, and variable-<br>damper elements  | granted                        | 14/520,091                                  | 2/1/2010 US 20                                       |              | 2/19/2015                          |                               | 1/10/2017                            | 3/31/2026                           |
| L-2017-098 US XIV  |                                      | M.I.T Articial human limbs and joints employing actuators, springs, and variable-<br>damper elements  | granted                        | 13/171,307                                  | 3/31/2006 US 20                                      | 11/0264230   | 10/27/2011                         | 9333097                       | 5/10/2016                            | 3/31/2026                           |
| L-2017-099 US  |                                      | M.I.T Artificial ankle-foot system with spring, variable-damping, and series-elastic<br>actuator com  | granted                        | 13/723,743                                  | 3/31/2006 US 20                                      | 13/0110954   | 5/2/2013                           | 8734528                       | 5/27/2014                            | 3/31/2026                           |
| L-2017-099 US DIV  |                                      | M.I.T Artificial ankle-foot system with spring, variable-damping, and series-elastic<br>actuator com  | granted                        | 14/283,323                                  | 3/31/2006 US 20                                      |              | 9/11/2014                          |                               |                                      | 3/31/2026 <b>PA</b> T               |
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