

8311680



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

UNITED STATES DEPARTMENT OF COMMERCE

United States Patent and Trademark Office

November 03, 2022

**THIS IS TO CERTIFY THAT ANNEXED IS A TRUE COPY FROM THE
RECORDS OF THIS OFFICE OF THE FILE WRAPPER AND CONTENTS
OF:**

APPLICATION NUMBER: 15/896,731
FILING DATE: February 14, 2018
PATENT NUMBER: 10668316
ISSUE DATE: June 02, 2020



Certified by

Kathi

Performing the Functions and Duties of the
Under Secretary of Commerce
for Intellectual Property
and Director of the United States
Patent and Trademark Office



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
 Address: COMMISSIONER FOR PATENTS
 P.O. Box 1450
 Alexandria, Virginia 22313-1450
 www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

58249 7590 01/10/2020
COOLEY LLP
 ATTN: IP Docketing Department
 1299 Pennsylvania Avenue, NW
 Suite 700
 Washington, DC 20004

EXAMINER

ATKINSON, GARRETT K

ART UNIT

PAPER NUMBER

3784

DATE MAILED: 01/10/2020

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/896,731	02/14/2018	Keith MCBRIDE	BION-051/12US 307799-2333	4706

TITLE OF INVENTION: METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1000	\$0.00	\$0.00	\$1000	04/10/2020

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

58249 7590 01/10/2020
COOLEY LLP
ATTN: IP Docketing Department
1299 Pennsylvania Avenue, NW
Suite 700
Washington, DC 20004

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/896,731	02/14/2018	Keith MCBRIDE	BION-051/12US 307799-2333	4706

TITLE OF INVENTION: METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1000	\$0.00	\$0.00	\$1000	04/10/2020

EXAMINER	ART UNIT	CLASS-SUBCLASS
ATKINSON, GARRETT K	3784	482-139000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,

(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____
2 _____
3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. Fees submitted: ☐ Issue Fee ☐ Publication Fee (if required) ☐ Advance Order - # of Copies _____

4b. Method of Payment: (Please first reapply any previously paid fee shown above)

☐ Electronic Payment via EFS-Web ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)

☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

5. Change in Entity Status (from status indicated above)

☐ Applicant certifying micro entity status. See 37 CFR 1.29

☐ Applicant asserting small entity status. See 37 CFR 1.27

☐ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
 Address: COMMISSIONER FOR PATENTS
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/896,731	02/14/2018	Keith MCBRIDE	BION-051/12US 307799-2333	4706
58249	7590	01/10/2020	EXAMINER	
COOLEY LLP			ATKINSON, GARRETT K	
ATTN: IP Docketing Department				
1299 Pennsylvania Avenue, NW				
Suite 700				
Washington, DC 20004				
			ART UNIT	PAPER NUMBER
			3784	
DATE MAILED: 01/10/2020				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
 (Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

<i>Notice Requiring Inventor's Oath or Declaration</i>	Application No. 15/896,731	Applicant(s) Keith MCBRIDE	
	Examiner ATKINSON, GARRETT K	Art Unit 3784	

This notice is an attachment to the Notice of Allowability (PTOL-37), or the Notice of Allowability For A Design Application (PTOL-37D).

An inventor's oath or declaration in compliance with 37 CFR 1.63 or 1.64 executed by or with respect to each inventor has not yet been submitted.

An oath or declaration in compliance with 37 CFR 1.63, or a substitute statement in compliance with 37 CFR 1.64, executed by or with respect to each inventor (for any inventor for which a compliant oath, declaration, or substitute statement has not yet been submitted) **MUST** be filed no later than the date on which the issue fee is paid. See 35 U.S.C. 115(f). Failure to timely comply will result in ABANDONMENT of this application.

A properly executed inventor's oath to declaration has not been received for the following inventor(s):

If applicant previously filed one or more oaths, declarations, or substitute statements, applicant may have received an informational notice regarding deficiencies therein.

The following deficiencies are noted:

INFORMAL ACTION PROBLEMS

- A properly executed inventor's oath or declaration has not been received for the following inventor(s): **Keith MCBRIDE, Arkady GLUKHOVSKY, and Augustine SMITH.**

Applicant may submit the inventor's oath or declaration at any time before the Notice of Allowance and Fee(s) Due, PTOL-85, is mailed.

Questions relating to this Notice should be directed to the Application Assistance Unit at 571-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. 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.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b) (2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Notice of Allowability	Application No. 15/896,731	Applicant(s) MCBRIDE et al.	
	Examiner GARRETT K ATKINSON	Art Unit 3784	AIA (FITF) Status Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the 12/6/2019 amendment.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on ____.
2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on ____; the restriction requirement and election have been incorporated into this action.
3. ☒ The allowed claim(s) is/are 1-4 and 6-20. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
Certified copies:
a) ☐ All b) ☐ Some *c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
* Certified copies not received: ____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892) 2. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date <u>SEE ATTACHED IDS SHEETS</u> . 3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____. 4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.	5. ☐ Examiner's Amendment/Comment 6. ☐ Examiner's Statement of Reasons for Allowance 7. ☐ Other _____.
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/GARRETT K ATKINSON/ Primary Examiner, Art Unit 3784	
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<i>Search Notes</i> 	Application/Control No. 15/896,731	Applicant(s)/Patent Under Reexamination MCBRIDE et al.
	Examiner GARRETT K ATKINSON	Art Unit 3784

CPC - Searched*		
Symbol	Date	Examiner
A63B21/4001, A63B69/0002, A63B21/00181, A63B24/0087, A63B23/0464, A63B21/068, A63B69/0064, A63B21/4007, A63B2225/50, A63B2225/20, A63B2220/805, A63B2220/54, A63B2220/51, A63B2220/40, A63B2220/30, A63B2220/10, A63B2071/0018, A63B2024/0093, A63B23/0458, A63B22/0235, A63B71/0622, A63B2022/0092, A63B2208/0204, A63B2022/0094	08/05/2019	GA

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	Date	Examiner
EAST SEARCH	08/05/2019	GA
INVENTOR NAME SEARCH	08/05/2019	GA
UPDATED SEARCH	12/22/2019	GA

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
	SEE EAST SEARCH	12/22/2019	GA

/GARRETT K ATKINSON/ Primary Examiner, Art Unit 3784	
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	Examiner GARRETT K ATKINSON	Art Unit 3784

/GARRETT K ATKINSON/ Primary Examiner, Art Unit 3784	
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Issue Classification 	Application/Control No. 15/896,731	Applicant(s)/Patent Under Reexamination MCBRIDE et al.
	Examiner GARRETT K ATKINSON	Art Unit 3784

CPC						
Symbol					Type	Version
A63B	/	21	/	4001	F	2015-10-01
A63B	/	24	/	0087	I	2013-01-01
A63B	/	21	/	068	I	2013-01-01
A63B	/	69	/	0064	I	2013-01-01
A63B	/	69	/	0002	I	2013-01-01
A63B	/	23	/	0464	I	2013-01-01
A63B	/	21	/	00181	I	2013-01-01
A63B	/	2208	/	0204	A	2013-01-01
A63B	/	2022	/	0094	A	2013-01-01
A63B	/	2022	/	0092	A	2013-01-01
A63B	/	2220	/	30	A	2013-01-01
A63B	/	2220	/	10	A	2013-01-01
A63B	/	2225	/	20	A	2013-01-01
A63B	/	2225	/	50	A	2013-01-01
A63B	/	23	/	0458	A	2013-01-01
A63B	/	2220	/	40	A	2013-01-01
A63B	/	2220	/	805	A	2013-01-01
A63B	/	2220	/	54	A	2013-01-01
A63B	/	2024	/	0093	A	2013-01-01
A63B	/	2071	/	0018	A	2013-01-01
A63B	/	21	/	4007	A	2015-10-01
A63B	/	22	/	0235	A	2013-01-01
A63B	/	2220	/	51	A	2013-01-01
A63B	/	71	/	0622	A	2013-01-01

CPC Combination Sets					
Symbol	Type	Set	Ranking	Version	
/					

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	19	
/GARRETT K ATKINSON/ Primary Examiner, Art Unit 3784	22 December 2019	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	2

Issue Classification 	Application/Control No. 15/896,731	Applicant(s)/Patent Under Reexamination MCBRIDE et al.
	Examiner GARRETT K ATKINSON	Art Unit 3784

INTERNATIONAL CLASSIFICATION				
CLAIMED				
A63B21/00	/	21	/	00
A63B24/00	/	24	/	00
A63B21/068	/	21	/	068
A63B69/00	/	69	/	00
A63B23/04	/	23	/	04
A63B22/00	/	22	/	00
A63B71/00	/	71	/	00
A63B22/02	/	22	/	02
A63B71/06	/	71	/	06
NON-CLAIMED				
	/		/	

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS

CROSS REFERENCES(S)						
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)					

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	19	
/GARRETT K ATKINSON/ Primary Examiner, Art Unit 3784 (Primary Examiner)	22 December 2019 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 2

<i>Issue Classification</i> 	Application/Control No. 15/896,731	Applicant(s)/Patent Under Reexamination MCBRIDE et al.
	Examiner GARRETT K ATKINSON	Art Unit 3784

☒ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47															
CLAIMS															
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	19	
/GARRETT K ATKINSON/ Primary Examiner, Art Unit 3784	22 December 2019	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	2

Bibliographic Data

Application No: 15/896,731

Foreign Priority claimed: ☐ Yes ☒ No35 USC 119 (a-d) conditions met: ☐ Yes ☒ No☐ Met After Allowance

Verified and Acknowledged: /GARRETT K ATKINSON/

Examiner's Signature

Initials

Title:

METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT
SYSTEM

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
02/14/2018	482	3784	BION-051/12US 307799-2333
RULE			

APPLICANTS

Bioness Inc., Valencia, CA, UNITED STATES

INVENTORS

Keith MCBRIDE Ventura, CA, UNITED STATES

Arkady GLUKHOVSKY Valencia, CA, UNITED STATES

Augustine SMITH Santa Clarita, CA, UNITED STATES

CONTINUING DATA

This application has PRO of 62458648 02/14/2017

FOREIGN APPLICATIONS**IF REQUIRED, FOREIGN LICENSE GRANTED****

03/08/2018

STATE OR COUNTRY

UNITED STATES

ADDRESS

COOLEY LLP

ATTN: IP Docketing Department

1299 Pennsylvania Avenue, NW

Suite 700

Washington, DC 20004

UNITED STATES

FILING FEE RECEIVED

\$2,280

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	93	("0764781" "0895055" "10219960" "1536766" "1648930" "1971294" "20010027149" "20030084508" "20030146069" "20030153438" "20030200607" "20030201374" "20040074414" "20040143198" "20040200795" "20050115914" "20060189453" "20060229167" "20060240952" "20070004567" "20080287268" "20090308828" "20100000546" "20100312152" "20110000015" "20110072580" "20110265260" "20120000876" "20120198612" "20120325586" "20140201905" "20140201906" "20140206503" "20150143627" "20150283921" "20170128313" "20180036196" "20180071159" "20190216664" "2211220" "2360505" "2519165" "2688933" "2819755" "3424458" "3720172" "3780663" "3985082" "4243147" "4360307" "4372452" "4427398" "4606082" "4627119" "4639955" "4706782" "4944056" "5048822" "5138953" "5337908" "5490293" "5511486" "5632206" "5638755" "5695432" "5809591" "5850928" "5904099" "6080087" "6192803" "6315138" "6464208" "6520484" "6645126" "6679185" "6890288" "7137771" "7240621" "7303049" "7377377" "7462138" "7618223" "7883450" "7938757" "7993248" "8397320" "8584274" "8789682" "8978905" "9510991" "9682000" "9839569" "9855177").PN.	US-PGPUB; USPAT	OR	ON	2019/12/22 19:48
L2	2003	(A63B\$ or A61H\$).cpc. and (trip\$4 or fall) with (catch\$4 or prevent\$4)	US-PGPUB; USPAT	OR	ON	2019/12/22 19:49
L3	27	L2 and ((rope or cord or tether or strap) with (adjust\$4)) same sens\$4	US-PGPUB; USPAT	OR	ON	2019/12/22 19:49
L4	25	L3 and accelerat\$4	US-PGPUB; USPAT	OR	ON	2019/12/22 19:49
L5	21	(US-20170027803-\$ or US-20060229167-\$ or US-20120018249-\$ or US-20040143198-\$).did. or (US-5314390-\$ or US-6880487-\$ or US-5830162-\$ or US-7381163-\$ or US-7125388-\$ or US-4423864-\$ or US-7621850-\$ or US-	US-PGPUB; USPAT; USOCR	OR	ON	2019/12/22 19:49

		8002674-\$ or US-8550962-\$ or US-4204673-\$ or US-4733858-\$ or US-9713439-\$ or US-7998040-\$ or US-0229167-\$ or US-0143198-\$ or US-0018249-\$).did. or (US-3408067-\$).did.				
L6	1	L5 and (trip\$4 or fall\$4) with sensor	US-PGPUB; USPAT	OR	ON	2019/12/22 19:49
S1	27	((("ARIZONA") near3 ("BOARD") near3 ("OF") near3 ("REGENTS") near3 ("ON") near3 ("BEHALF") near3 ("OF") near3 ("ARIZONA") near3 ("STATE") near3 ("UNIVERSITY"))).AANM.	USPAT	AND	ON	2017/04/13 15:24
S2	4	((("ARTEMIADIS") near3 ("Panagiotis"))).INV.	US-PGPUB; USPAT; USOCR	AND	ON	2017/04/13 15:24
S3	1	((("BARKAN") near3 ("Andrew"))).INV.	US-PGPUB; USPAT; USOCR	AND	ON	2017/04/13 15:24
S4	4	("20060052728" "5302162" "8246354" "8262590").PN.	US-PGPUB; USPAT	AND	ON	2017/04/13 15:25
S5	4265	(482/51-54).CCLS.	US-PGPUB; USPAT	OR	OFF	2017/04/13 15:27
S6	5888	(A63B22/0292 or A63B22/02\$ or A63B69/0064 or A63B22/0235 or A63B24/0087 or A63B21/00181 or A63B22/0221 or A61B5/6892 or A61B5/1036 or A63B2220/52 or A63B2024/0093 or A63B2220/18).cpc.	US-PGPUB; USPAT	AND	ON	2017/04/13 15:28
S7	8655	S5 or S6	US-PGPUB; USPAT	AND	ON	2017/04/13 15:28
S8	161	S7 and counterweight	US-PGPUB; USPAT	AND	ON	2017/04/13 15:28
S9	102	S8 and (tension\$4 or stiff\$4)	US-PGPUB; USPAT	AND	ON	2017/04/13 15:29
S10	5	S9 and (belt with (two or split or dual))	US-PGPUB; USPAT	AND	ON	2017/04/13 15:29
S11	0	S9 and (tread with (two or split or dual))	US-PGPUB; USPAT	AND	ON	2017/04/13 15:31
S12	55	S7 and counterweight and treadmill	US-PGPUB; USPAT	AND	ON	2017/04/13 15:31
S13	38	S12 and (tension\$4 or stiff\$4)	US-PGPUB; USPAT	AND	ON	2017/04/13 15:31
S14	268	S7 and treadmill and (belt near2 (two or split or dual))	US-PGPUB; USPAT	AND	ON	2017/04/13 15:34
S15	152	("0964898" "1082940"	US-	AND	ON	2017/04/14

		"20010016542" "20030064862" "20040192514" "20040214693" "20050209059" "20050209060" "20050209061" "20050233864" "20060223680" "20090176626" "20090264260" "20100062904" "20100093500" "2017128" "2117957" "2512904" "3408067" "3580340" "3637206" "3642279" "3650529" "3711090" "3792860" "3814420" "3826491" "4066257" "4126326" "4204673" "4274625" "4334676" "4342452" "4344616" "4374587" "4406451" "4423864" "4555108" "4659074" "4659077" "4733858" "4747612" "4830362" "4838543" "4842268" "5039088" "5048821" "5054770" "5110117" "5135447" "5139255" "5149084" "5199934" "5207621" "5226866" "5263910" "5267923" "5282776" "5299993" "5320588" "5336142" "5336146" "5338273" "5370592" "5385520" "5411279" "5431612" "5441467" "5460586" "5490818" "5492517" "5512025" "5518470" "5538489" "5575740" "5607376" "5626539" "5643144" "5645512" "5669856" "5679101" "5690582" "5762587" "5803871" "5803874" "5803880" "5816372" "5833584" "5871421" "5879271" "5882281" "5897459" "5897460" "5897461" "5913384" "5919115" "5951449" "5967944" "5993358" "6033344" "6042519" "6045490" "6152859" "6179754" "6217487" "6264042" "6283896" "6409633" "6461279" "6554749" "6645124" "6761667" "6811517" "6811519" "6824502" "6849034" "6893383" "6923746" "7097593" "7163493").PN. OR ("7166062" "7179204" "7306546" "7377882" "7517303" "7553260" "7621850" "7645214" "7704191" "7811209" "7819779" "D521577").PN. OR ("8002674").URPN.	PGPUB; USPAT; USOCR			22:19
S31	64	((("ARI ZONA") near3 ("BOARD") near3 ("OF") near3 ("REGENTS") near3 ("ON") near3 ("BEHALF") near3 ("OF") near3 ("ARI ZONA") near3 ("STATE") near3 ("UNIVERSITY"))).AANM.	USPAT	AND	ON	2018/04/02 09:03
S32	8	((("ARTEMI ADIS") near3 ("Panagiotis"))).INV.	US- PGPUB; USPAT; USOCR	AND	ON	2018/04/02 09:03
S33	2	((("BARKAN") near3 ("Andrew"))).INV.	US- PGPUB; USPAT; USOCR	AND	ON	2018/04/02 09:03
S34	4	("20060052728" "5302162" "8246354" "8262590").PN.	US- PGPUB; USPAT	AND	ON	2018/04/02 09:03

S35	4266	(482/51-54).CCLS.	US-PGPUB; USPAT	OR	OFF	2018/04/02 09:03
S36	6818	(A63B22/0292 or A63B22/02\$ or A63B69/0064 or A63B22/0235 or A63B24/0087 or A63B21/00181 or A63B22/0221 or A61B5/6892 or A61B5/1036 or A63B2220/52 or A63B2024/0093 or A63B2220/18).cpc.	US-PGPUB; USPAT	AND	ON	2018/04/02 09:03
S37	9574	S35 or S36	US-PGPUB; USPAT	AND	ON	2018/04/02 09:03
S38	180	S37 and counterweight	US-PGPUB; USPAT	AND	ON	2018/04/02 09:03
S39	113	S38 and (tension\$4 or stiff\$4)	US-PGPUB; USPAT	AND	ON	2018/04/02 09:03
S40	7	S39 and (belt with (two or split or dual))	US-PGPUB; USPAT	AND	ON	2018/04/02 09:03
S41	0	S39 and (tread with (two or split or dual))	US-PGPUB; USPAT	AND	ON	2018/04/02 09:03
S42	66	S37 and counterweight and treadmill	US-PGPUB; USPAT	AND	ON	2018/04/02 09:03
S43	46	S42 and (tension\$4 or stiff\$4)	US-PGPUB; USPAT	AND	ON	2018/04/02 09:03
S44	289	S37 and treadmill and (belt near2 (two or split or dual))	US-PGPUB; USPAT	AND	ON	2018/04/02 09:03
S45	154	("0964898" "1082940" "20010016542" "20030064862" "20040192514" "20040214693" "20050209059" "20050209060" "20050209061" "20050233864" "20060223680" "20090176626" "20090264260" "20100062904" "20100093500" "2017128" "2117957" "2512904" "3408067" "3580340" "3637206" "3642279" "3650529" "3711090" "3792860" "3814420" "3826491" "4066257" "4126326" "4204673" "4274625" "4334676" "4342452" "4344616" "4374587" "4406451" "4423864" "4555108" "4659074" "4659077" "4733858" "4747612" "4830362" "4838543" "4842268" "5039088" "5048821" "5054770" "5110117" "5135447" "5139255" "5149084" "5199934" "5207621" "5226866" "5263910" "5267923" "5282776" "5299993" "5320588" "5336142" "5336146" "5338273" "5370592" "5385520" "5411279" "5431612" "5441467" "5460586" "5490818" "5492517" "5512025" "5518470" "5538489"	US-PGPUB; USPAT; USOCR	AND	ON	2018/04/02 09:03

		"5575740" "5607376" "5626539" "5643144" "5645512" "5669856" "5679101" "5690582" "5762587" "5803871" "5803874" "5803880" "5816372" "5833584" "5871421" "5879271" "5882281" "5897459" "5897460" "5897461" "5913384" "5919115" "5951449" "5967944" "5993358" "6033344" "6042519" "6045490" "6152859" "6179754" "6217487" "6264042" "6283896" "6409633" "6461279" "6554749" "6645124" "6761667" "6811517" "6811519" "6824502" "6849034" "6893383" "6923746" "7097593" "7163493").PN. OR ("7166062" "7179204" "7306546" "7377882" "7517303" "7553260" "7621850" "7645214" "7704191" "7811209" "7819779" "D521577").PN. OR ("8002674").URPN.				
S46	12052	(A61H3/008 or A63B71/0622 or A63B21/4009 or A63B22/02 or A63B23/0405 or A63B21/154 or A63B24/0087 or A61H2201/1619 or A63B2220/51 or A63B2220/803 or A63B2220/40 or A61H2205/10).cpc.	US- PGPUB; USPAT	AND	ON	2018/04/02 09:06
S47	4	((("DIAO") near3 ("Xiumin")).INV.	US- PGPUB; USPAT; USOCR	AND	ON	2018/04/02 09:07
S48	257	((("PURDUE") near3 ("RESEARCH") near3 ("FOUNDATION")).AANM.	USPAT	AND	ON	2018/04/02 09:07
S49	17607	S35 or S36 or S46	US- PGPUB; USPAT	AND	ON	2018/04/02 09:11
S50	0	S49 and (harness same motion same force same sensor same acceler\$6 same cable same actuat\$4)	US- PGPUB; USPAT	AND	ON	2018/04/02 09:23
S51	0	S49 and (harness same motion same force same sensor same cable same actuat\$4)	US- PGPUB; USPAT	AND	ON	2018/04/02 09:23
S52	2	S49 and (harness same force same sensor same cable same actuat\$4)	US- PGPUB; USPAT	AND	ON	2018/04/02 09:23
S53	151	S49 and harness and ((tension or force) same sensor) and cable and actuat\$4	US- PGPUB; USPAT	AND	ON	2018/04/02 09:25
S54	45	S49 and harness and ((tension or force) same sensor) and (cable same actuat\$4)	US- PGPUB; USPAT	AND	ON	2018/04/02 09:25
S55	34	S54 and (motion same sens\$4)	US- PGPUB; USPAT	AND	ON	2018/04/02 09:25
S56	26	S54 and (motion with sens\$4)	US- PGPUB; USPAT	AND	ON	2018/04/02 09:25
S57	44	S49 and harness and ((tension or force) with sens\$4) and (cable same actuat\$4)	US- PGPUB; USPAT	AND	ON	2018/04/02 09:26

S58	25	S57 and (motion with sens\$4)	US-PGPUB; USPAT	AND	ON	2018/04/02 09:26
S59	21	S58 and acceler\$	US-PGPUB; USPAT	AND	ON	2018/04/02 09:26
S60	20	S59 and signal	US-PGPUB; USPAT	AND	ON	2018/04/02 09:28
S61	9	S58 and (acceler\$ with chang\$4)	US-PGPUB; USPAT	AND	ON	2018/04/02 09:58
S77	161	((("ARIZONA") near3 ("BOARD") near3 ("OF") near3 ("REGENTS") near3 ("ON") near3 ("BEHALF") near3 ("OF") near3 ("ARIZONA") near3 ("STATE") near3 ("UNIVERSITY"))).AANM.	USPAT	AND	ON	2019/08/05 09:50
S78	11	((("ARTEMIADIS") near3 ("Panagiotis"))).INV.	US-PGPUB; USPAT; USOCR	AND	ON	2019/08/05 09:50
S79	2	((("BARKAN") near3 ("Andrew"))).INV.	US-PGPUB; USPAT; USOCR	AND	ON	2019/08/05 09:50
S80	4	("20060052728" "5302162" "8246354" "8262590").PN.	US-PGPUB; USPAT	AND	ON	2019/08/05 09:50
S81	4261	(482/51-54).CCLS.	US-PGPUB; USPAT	OR	OFF	2019/08/05 09:50
S82	8209	(A63B22/0292 or A63B22/02\$ or A63B69/0064 or A63B22/0235 or A63B24/0087 or A63B21/00181 or A63B22/0221 or A61B5/6892 or A61B5/1036 or A63B2220/52 or A63B2024/0093 or A63B2220/18).cpc.	US-PGPUB; USPAT	AND	ON	2019/08/05 09:50
S83	10959	S81 or S82	US-PGPUB; USPAT	AND	ON	2019/08/05 09:50
S84	210	S83 and counterweight	US-PGPUB; USPAT	AND	ON	2019/08/05 09:50
S85	132	S84 and (tension\$4 or stiff\$4)	US-PGPUB; USPAT	AND	ON	2019/08/05 09:50
S86	7	S85 and (belt with (two or split or dual))	US-PGPUB; USPAT	AND	ON	2019/08/05 09:50
S87	0	S85 and (tread with (two or split or dual))	US-PGPUB; USPAT	AND	ON	2019/08/05 09:50
S88	83	S83 and counterweight and treadmill	US-PGPUB; USPAT	AND	ON	2019/08/05 09:50
S89	60	S88 and (tension\$4 or stiff\$4)	US-PGPUB; USPAT	AND	ON	2019/08/05 09:50

S90	333	S83 and treadmill and (belt near2 (two or split or dual))	US-PGPUB; USPAT	AND	ON	2019/08/05 09:50
S91	162	("0964898" "1082940" "20010016542" "20030064862" "20040192514" "20040214693" "20050209059" "20050209060" "20050209061" "20050233864" "20060223680" "20090176626" "20090264260" "20100062904" "20100093500" "2017128" "2117957" "2512904" "3408067" "3580340" "3637206" "3642279" "3650529" "3711090" "3792860" "3814420" "3826491" "4066257" "4126326" "4204673" "4274625" "4334676" "4342452" "4344616" "4374587" "4406451" "4423864" "4555108" "4659074" "4659077" "4733858" "4747612" "4830362" "4838543" "4842268" "5039088" "5048821" "5054770" "5110117" "5135447" "5139255" "5149084" "5199934" "5207621" "5226866" "5263910" "5267923" "5282776" "5299993" "5320588" "5336142" "5336146" "5338273" "5370592" "5385520" "5411279" "5431612" "5441467" "5460586" "5490818" "5492517" "5512025" "5518470" "5538489" "5575740" "5607376" "5626539" "5643144" "5645512" "5669856" "5679101" "5690582" "5762587" "5803871" "5803874" "5803880" "5816372" "5833584" "5871421" "5879271" "5882281" "5897459" "5897460" "5897461" "5913384" "5919115" "5951449" "5967944" "5993358" "6033344" "6042519" "6045490" "6152859" "6179754" "6217487" "6264042" "6283896" "6409633" "6461279" "6554749" "6645124" "6761667" "6811517" "6811519" "6824502" "6849034" "6893383" "6923746" "7097593" "7163493").PN. OR ("7166062" "7179204" "7306546" "7377882" "7517303" "7553260" "7621850" "7645214" "7704191" "7811209" "7819779" "D521577").PN. OR ("8002674").URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2019/08/05 09:50
S92	161	((("ARI ZONA") near3 ("BOARD") near3 ("OF") near3 ("REGENTS") near3 ("ON") near3 ("BEHALF") near3 ("OF") near3 ("ARIZONA") near3 ("STATE") near3 ("UNIVERSITY"))).AANM.	USPAT	AND	ON	2019/08/05 09:50
S93	11	((("ARTEMI ADIS") near3 ("Panagiotis"))).INV.	US-PGPUB; USPAT; USOCR	AND	ON	2019/08/05 09:50
S94	2	((("BARKAN") near3 ("Andrew"))).INV.	US-PGPUB;	AND	ON	2019/08/05 09:50

			USPAT; USOCR			
S95	4	("20060052728" "5302162" "8246354" "8262590").PN.	US- PGPUB; USPAT	AND	ON	2019/08/05 09:50
S96	4261	(482/51-54).CCLS.	US- PGPUB; USPAT	OR	OFF	2019/08/05 09:50
S97	8209	(A63B22/0292 or A63B22/02\$ or A63B69/0064 or A63B22/0235 or A63B24/0087 or A63B21/00181 or A63B22/0221 or A61B5/6892 or A61B5/1036 or A63B2220/52 or A63B2024/0093 or A63B2220/18).cpc.	US- PGPUB; USPAT	AND	ON	2019/08/05 09:50
S98	10959	S96 or S97	US- PGPUB; USPAT	AND	ON	2019/08/05 09:50
S99	210	S98 and counterweight	US- PGPUB; USPAT	AND	ON	2019/08/05 09:50
S100	132	S99 and (tension\$4 or stiff\$4)	US- PGPUB; USPAT	AND	ON	2019/08/05 09:50
S101	7	S100 and (belt with (two or split or dual))	US- PGPUB; USPAT	AND	ON	2019/08/05 09:50
S102	0	S100 and (tread with (two or split or dual))	US- PGPUB; USPAT	AND	ON	2019/08/05 09:50
S103	83	S98 and counterweight and treadmill	US- PGPUB; USPAT	AND	ON	2019/08/05 09:50
S104	60	S103 and (tension\$4 or stiff\$4)	US- PGPUB; USPAT	AND	ON	2019/08/05 09:50
S105	333	S98 and treadmill and (belt near2 (two or split or dual))	US- PGPUB; USPAT	AND	ON	2019/08/05 09:50
S106	162	("0964898" "1082940" "20010016542" "20030064862" "20040192514" "20040214693" "20050209059" "20050209060" "20050209061" "20050233864" "20060223680" "20090176626" "20090264260" "20100062904" "20100093500" "2017128" "2117957" "2512904" "3408067" "3580340" "3637206" "3642279" "3650529" "3711090" "3792860" "3814420" "3826491" "4066257" "4126326" "4204673" "4274625" "4334676" "4342452" "4344616" "4374587" "4406451" "4423864" "4555108" "4659074" "4659077" "4733858" "4747612" "4830362" "4838543" "4842268" "5039088" "5048821" "5054770" "5110117" "5135447" "5139255" "5149084" "5199934" "5207621" "5226866" "5263910" "5267923" "5282776" "5299993"	US- PGPUB; USPAT; USOCR	AND	ON	2019/08/05 09:50

		"5320588" "5336142" "5336146" "5338273" "5370592" "5385520" "5411279" "5431612" "5441467" "5460586" "5490818" "5492517" "5512025" "5518470" "5538489" "5575740" "5607376" "5626539" "5643144" "5645512" "5669856" "5679101" "5690582" "5762587" "5803871" "5803874" "5803880" "5816372" "5833584" "5871421" "5879271" "5882281" "5897459" "5897460" "5897461" "5913384" "5919115" "5951449" "5967944" "5993358" "6033344" "6042519" "6045490" "6152859" "6179754" "6217487" "6264042" "6283896" "6409633" "6461279" "6554749" "6645124" "6761667" "6811517" "6811519" "6824502" "6849034" "6893383" "6923746" "7097593" "7163493").PN. OR ("7166062" "7179204" "7306546" "7377882" "7517303" "7553260" "7621850" "7645214" "7704191" "7811209" "7819779" "D521577").PN. OR ("8002674").URPN.				
S107	14441	(A61H3/008 or A63B71/0622 or A63B21/4009 or A63B22/02 or A63B23/0405 or A63B21/154 or A63B24/0087 or A61H2201/1619 or A63B2220/51 or A63B2220/803 or A63B2220/40 or A61H2205/10).cpc.	US- PGPUB; USPAT	AND	ON	2019/08/05 09:50
S108	6	((("DIAO") near3 ("Xiumin"))).INV.	US- PGPUB; USPAT; USOCR	AND	ON	2019/08/05 09:50
S109	440	((("PURDUE") near3 ("RESEARCH") near3 ("FOUNDATION"))).AANM.	USPAT	AND	ON	2019/08/05 09:50
S110	20551	S96 or S97 or S107	US- PGPUB; USPAT	AND	ON	2019/08/05 09:50
S111	1	S110 and (harness same motion same force same sensor same acceler\$6 same cable same actuat\$4)	US- PGPUB; USPAT	AND	ON	2019/08/05 09:50
S112	1	S110 and (harness same motion same force same sensor same cable same actuat\$4)	US- PGPUB; USPAT	AND	ON	2019/08/05 09:50
S113	7	S110 and (harness same force same sensor same cable same actuat\$4)	US- PGPUB; USPAT	AND	ON	2019/08/05 09:50
S114	208	S110 and harness and ((tension or force) same sensor) and cable and actuat\$4	US- PGPUB; USPAT	AND	ON	2019/08/05 09:50
S115	61	S110 and harness and ((tension or force) same sensor) and (cable same actuat\$4)	US- PGPUB; USPAT	AND	ON	2019/08/05 09:50
S116	45	S115 and (motion same sens\$4)	US- PGPUB; USPAT	AND	ON	2019/08/05 09:50
S117	36	S115 and (motion with sens\$4)	US-	AND	ON	2019/08/05

			PGPUB; USPAT			09:50
S118	60	S110 and harness and ((tension or force) with sens\$4) and (cable same actuat\$4)	US- PGPUB; USPAT	AND	ON	2019/08/05 09:50
S119	37	S118 and (motion with sens\$4)	US- PGPUB; USPAT	AND	ON	2019/08/05 09:50
S120	33	S119 and acceler\$	US- PGPUB; USPAT	AND	ON	2019/08/05 09:50
S121	28	S120 and signal	US- PGPUB; USPAT	AND	ON	2019/08/05 09:50
S122	10	S119 and (acceler\$ with chang\$4)	US- PGPUB; USPAT	AND	ON	2019/08/05 09:50
S123	287	((("MCBRIDE") near3 ("Keith")) OR ((("GLUKHOVSKY") near3 ("Arkady")) OR ((("SMITH") near3 ("Augustine")))).INV.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/08/05 09:50
S124	20	((("BIONESE") near3 ("INC"))).AS,AANM.	USPAT	OR	ON	2019/08/05 09:50
S125	14	2006/0229167	US- PGPUB; USPAT	OR	ON	2019/08/05 10:11
S126	14	2006/0229167	US- PGPUB; USPAT	OR	ON	2019/08/05 10:11
S127	0	(2006/0229167).CCLS.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/08/05 10:11
S128	2	"20060229167"	US- PGPUB; USPAT	OR	ON	2019/08/05 10:12
S129	16	(US-20170027803-\$ or US-20060229167-\$).did. or (US-5314390-\$ or US-6880487-\$ or US-5830162-\$ or US-7381163-\$ or US-7125388-\$ or US-4423864-\$ or US-7621850-\$ or US-8002674-\$ or US-8550962-\$ or US-4204673-\$ or US-4733858-\$ or US-9713439-\$ or US-7998040-\$).did. or (US-3408067-\$).did.	US- PGPUB; USPAT; USOCR	OR	ON	2019/08/05 10:12
S130	6	(US-0018249-\$ US-0143198-\$ US-0229167-\$ US-20040143198-\$ US-20060229167-\$ US-20120018249-\$).DID.	US- PGPUB; USPAT	OR	ON	2019/08/05 10:13
S131	21	(US-20170027803-\$ or US-20060229167-\$ or US-20120018249-\$ or US-20040143198-\$).did. or (US-5314390-\$ or US-6880487-\$ or US-5830162-\$ or US-7381163-\$ or US-7125388-\$ or US-4423864-\$ or US-7621850-\$ or US-8002674-\$ or US-8550962-\$ or US-4204673-\$ or US-4733858-\$ or US-9713439-\$ or US-7998040-\$ or US-	US- PGPUB; USPAT; USOCR	OR	ON	2019/08/05 10:13

		0229167-\$ or US-0143198-\$ or US-0018249-\$).did. or (US-3408067-\$).did.				
S132	8	S131 and (trip\$4 or fall\$4)	US-PGPUB; USPAT	OR	ON	2019/08/05 10:13
S133	1	S131 and (trip\$4 or fall\$4) with sensor	US-PGPUB; USPAT	OR	ON	2019/08/05 10:16
S134	434	("0131163" "0407724" "1050400" "1192832" "2117957" "2227526" "2399915" "2765786" "2969768" "3047291" "3118315" "3195889" "3222061" "3323366" "3364736" "3408067" "3465592" "3485213" "3529474" "3602502" "3709197" "3711089" "3750479" "3778052" "3784194" "3814417" "3826491" "3892404" "3894437" "3941377" "3961751" "3970302" "4023795" "4074903" "4087088" "4122840" "4249725" "4383684" "4416293" "4496147" "4550908" "4681316" "4691694" "4709918" "4733858" "4813667" "4878384" "4900013" "4907797" "4911430" "4928708" "4958830" "4973044" "5050590" "5080109" "5088504" "5186695" "5192305" "5273502" "5311880" "5388591" "5623944").PN. OR ("143198" "18249" "2004/0143198" "229167" "3408067" "4204673" "4423864" "4733858" "5314390" "5830162").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2019/08/05 10:19
S135	7	S134 and (trip\$4 or fall\$4) with sensor	US-PGPUB; USPAT	OR	ON	2019/08/05 10:22
S136	19078	(A63B21/4001 or A63B69/0002 or A63B21/00181 or A63B24/0087 or A63B23/0464 or A63B21/068 or A63B69/0064 or A63B21/4007 or A63B2225/50 or A63B2225/20 or A63B2220/805 or A63B2220/54 or A63B2220/51 or A63B2220/40 or A63B2220/30 or A63B2220/10 or A63B2071/0018 or A63B2024/0093 or A63B23/0458 or A63B22/0235 or A63B71/0622 or A63B2022/0092 or A63B2208/0204 or A63B2022/0094).cpc.	US-PGPUB; USPAT	OR	ON	2019/08/05 10:24
S137	1934	(A63B\$ or A61H\$).cpc. and (trip\$4 or fall) with (catch\$4 or prevent\$4)	US-PGPUB; USPAT	OR	ON	2019/08/05 10:25
S138	1	S137 and (rope or cord or tether or strap) with (length) with (adjust\$4) with sensor	US-PGPUB; USPAT	OR	ON	2019/08/05 10:27
S139	23	S137 and ((rope or cord or tether or strap) with (adjust\$4)) same sens\$4	US-PGPUB; USPAT	OR	ON	2019/08/05 10:29
S140	11	S139 and acceler\$4	US-PGPUB; USPAT	OR	ON	2019/08/05 10:34

S141	22	S139 and accelerat\$4	US-PGPUB; USPAT	OR	ON	2019/08/05 10:34
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EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L7	0	(body with weight with support\$4 with (tether or strap) with (adjust\$4 or chang\$4) with length with (above or overhead) with maintain).clm.	US-PGPUB; USPAT	AND	ON	2019/12/22 20:04
L8	3	((body or weight) with support\$4 with (tether or strap) with (adjust\$4 or chang\$4) with length with (above or overhead) with maintain).clm.	US-PGPUB; USPAT	AND	ON	2019/12/22 20:04
L9	1	((body or weight) with support\$4 with (tether or strap) with (adjust\$4 or chang\$4) with length with (overhead) with maintain).clm.	US-PGPUB; USPAT	AND	ON	2019/12/22 20:05
S27	0	(treadmill with belt with (split or two or dual) with (tension or stiffness) with motor with track with spring with lever).clm.	US-PGPUB; USPAT	AND	ON	2017/04/14 23:05
S28	0	(treadmill with belt with (split or two or dual) with (tension or stiffness) with motor with lever).clm.	US-PGPUB; USPAT	AND	ON	2017/04/14 23:05
S29	1	(treadmill with belt with (split or two or dual) with (tension or stiffness) with lever).clm.	US-PGPUB; USPAT	AND	ON	2017/04/14 23:06
S30	2	(treadmill with belt with (split or two or dual) with (tension or stiffness)).clm.	US-PGPUB; USPAT	AND	ON	2017/04/14 23:06
S62	0	(treadmill with belt with (split or two or dual) with (tension or stiffness) with motor with track with spring with lever with counterweight with (harness or body) with (column or post)).clm.	US-PGPUB; USPAT	AND	ON	2018/04/02 09:03
S63	0	(treadmill with belt with (split or two or dual) with (tension or stiffness) with motor with track with lever with counterweight with (harness or body) with (column or post)).clm.	US-PGPUB; USPAT	AND	ON	2018/04/02 09:03
S64	0	(treadmill with belt with (split or two or dual) with (tension or stiffness) with motor with track with lever with counterweight with (column or post)).clm.	US-PGPUB; USPAT	AND	ON	2018/04/02 09:03
S65	0	(treadmill with belt with (split or two or dual) with (tension or stiffness) with motor with track with lever with counterweight).clm.	US-PGPUB; USPAT	AND	ON	2018/04/02 09:03
S66	0	(treadmill with belt with (tension or stiffness) with motor with track with lever with counterweight).clm.	US-PGPUB; USPAT	AND	ON	2018/04/02 09:03
S67	0	(treadmill with belt with (tension or stiffness) with track with lever with counterweight).clm.	US-PGPUB; USPAT	AND	ON	2018/04/02 09:03
S68	0	(treadmill with (tension or stiffness) with track with lever with counterweight).clm.	US-PGPUB; USPAT	AND	ON	2018/04/02 09:03
S69	0	(treadmill with (tension or stiffness) with track with counterweight).clm.	US-PGPUB;	AND	ON	2018/04/02 09:03

			USPAT			
S70	0	(treadmill with (tension or stiffness) with counterweight).clm.	US-PGPUB; USPAT	AND	ON	2018/04/02 09:03
S71	3	(treadmill with counterweight).clm.	US-PGPUB; USPAT	AND	ON	2018/04/02 09:03
S72	0	(treadmill with (tension or stiffness) with counterweight).clm.	US-PGPUB; USPAT	AND	ON	2018/04/02 09:03
S73	0	(treadmill with belt with (split or two or dual) with (tension or stiffness) with motor with track with spring with lever).clm.	US-PGPUB; USPAT	AND	ON	2018/04/02 09:03
S74	0	(treadmill with belt with (split or two or dual) with (tension or stiffness) with motor with lever).clm.	US-PGPUB; USPAT	AND	ON	2018/04/02 09:03
S75	2	(treadmill with belt with (split or two or dual) with (tension or stiffness) with lever).clm.	US-PGPUB; USPAT	AND	ON	2018/04/02 09:03
S76	4	(treadmill with belt with (split or two or dual) with (tension or stiffness)).clm.	US-PGPUB; USPAT	AND	ON	2018/04/02 09:03
S142	0	(treadmill with belt with (split or two or dual) with (tension or stiffness) with motor with track with spring with lever with counterweight with (harness or body) with (column or post)).clm.	US-PGPUB; USPAT	AND	ON	2019/08/05 09:50
S143	0	(treadmill with belt with (split or two or dual) with (tension or stiffness) with motor with track with lever with counterweight with (harness or body) with (column or post)).clm.	US-PGPUB; USPAT	AND	ON	2019/08/05 09:50
S144	0	(treadmill with belt with (split or two or dual) with (tension or stiffness) with motor with track with lever with counterweight with (column or post)).clm.	US-PGPUB; USPAT	AND	ON	2019/08/05 09:50
S145	0	(treadmill with belt with (split or two or dual) with (tension or stiffness) with motor with track with lever with counterweight).clm.	US-PGPUB; USPAT	AND	ON	2019/08/05 09:50
S146	0	(treadmill with belt with (tension or stiffness) with motor with track with lever with counterweight).clm.	US-PGPUB; USPAT	AND	ON	2019/08/05 09:50
S147	0	(treadmill with belt with (tension or stiffness) with track with lever with counterweight).clm.	US-PGPUB; USPAT	AND	ON	2019/08/05 09:50
S148	0	(treadmill with (tension or stiffness) with track with lever with counterweight).clm.	US-PGPUB; USPAT	AND	ON	2019/08/05 09:50
S149	0	(treadmill with (tension or stiffness) with track with counterweight).clm.	US-PGPUB; USPAT	AND	ON	2019/08/05 09:50
S150	0	(treadmill with (tension or stiffness) with counterweight).clm.	US-PGPUB; USPAT	AND	ON	2019/08/05 09:50
S151	4	(treadmill with counterweight).clm.	US-PGPUB; USPAT	AND	ON	2019/08/05 09:50
S152	0	(treadmill with (tension or stiffness) with	US-	AND	ON	2019/08/05

		counterweight).clm.	PGPUB; USPAT			09:50
S153	0	(treadmill with belt with (split or two or dual) with (tension or stiffness) with motor with track with spring with lever).clm.	US- PGPUB; USPAT	AND	ON	2019/08/05 09:50
S154	0	(treadmill with belt with (split or two or dual) with (tension or stiffness) with motor with lever).clm.	US- PGPUB; USPAT	AND	ON	2019/08/05 09:50
S155	2	(treadmill with belt with (split or two or dual) with (tension or stiffness) with lever).clm.	US- PGPUB; USPAT	AND	ON	2019/08/05 09:50
S156	4	(treadmill with belt with (split or two or dual) with (tension or stiffness)).clm.	US- PGPUB; USPAT	AND	ON	2019/08/05 09:50
S157	0	(treadmill with belt with (split or two or dual) with (tension or stiffness) with motor with track with spring with lever with counterweight with (harness or body) with (column or post)).clm.	US- PGPUB; USPAT	AND	ON	2019/08/05 09:50
S158	0	(treadmill with belt with (split or two or dual) with (tension or stiffness) with motor with track with lever with counterweight with (harness or body) with (column or post)).clm.	US- PGPUB; USPAT	AND	ON	2019/08/05 09:50
S159	0	(treadmill with belt with (split or two or dual) with (tension or stiffness) with motor with track with lever with counterweight with (column or post)).clm.	US- PGPUB; USPAT	AND	ON	2019/08/05 09:50
S160	0	(treadmill with belt with (split or two or dual) with (tension or stiffness) with motor with track with lever with counterweight).clm.	US- PGPUB; USPAT	AND	ON	2019/08/05 09:50
S161	0	(treadmill with belt with (tension or stiffness) with motor with track with lever with counterweight).clm.	US- PGPUB; USPAT	AND	ON	2019/08/05 09:50
S162	0	(treadmill with belt with (tension or stiffness) with track with lever with counterweight).clm.	US- PGPUB; USPAT	AND	ON	2019/08/05 09:50
S163	0	(treadmill with (tension or stiffness) with track with lever with counterweight).clm.	US- PGPUB; USPAT	AND	ON	2019/08/05 09:50
S164	0	(treadmill with (tension or stiffness) with track with counterweight).clm.	US- PGPUB; USPAT	AND	ON	2019/08/05 09:50
S165	0	(treadmill with (tension or stiffness) with counterweight).clm.	US- PGPUB; USPAT	AND	ON	2019/08/05 09:50
S166	4	(treadmill with counterweight).clm.	US- PGPUB; USPAT	AND	ON	2019/08/05 09:50
S167	0	(treadmill with (tension or stiffness) with counterweight).clm.	US- PGPUB; USPAT	AND	ON	2019/08/05 09:50
S168	0	(treadmill with belt with (split or two or dual) with (tension or stiffness) with motor with track with spring with lever).clm.	US- PGPUB; USPAT	AND	ON	2019/08/05 09:50
S169	0	(treadmill with belt with (split or two or dual) with (tension or stiffness) with motor with lever).clm.	US- PGPUB; USPAT	AND	ON	2019/08/05 09:50

EAST Search History

S170	2	(treadmill with belt with (split or two or dual) with (tension or stiffness) with lever).clm.	US-PGPUB; USPAT	AND	ON	2019/08/05 09:50
S171	4	(treadmill with belt with (split or two or dual) with (tension or stiffness)).clm.	US-PGPUB; USPAT	AND	ON	2019/08/05 09:50

12/ 22/ 2019 8:05:53 PM**C:\ Users\ gatkinson\ Documents\ EAST\ Workspaces\ 15896731.wsp**

Receipt date: 12/06/2019

15/896,731 - GAU: 3784

PTO/SB/08b (07-09)

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Complete if Known			
		Application Number	15/896,731		
		Filing Date	February 14, 2018		
		First Named Inventor	Keith MCBRIDE		
		Art Unit	3784		
		Examiner Name	Garrett K. ATKINSON		
Sheet	1	of	6	Attorney Docket Number	BION-051/12US 307799-2333

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	1.	764,781	07-12-1904	Sumner	
	2.	895,055	08-04-1908	Spooner	
	3.	1,536,766	05-05-1925	Cammann	
	4.	1,648,930	11-15-1927	Zouck	
	5.	1,971,294	08-21-1934	Bunker	
	6.	2,211,220	08-13-1940	Verplanck	
	7.	2,360,505	10-17-1944	Medenwald et al.	
	8.	2,519,165	08-15-1950	Weise et al.	
	9.	2,688,933	09-14-1954	Spafford	
	10.	2,819,755	01-14-1958	Berger et al.	
	11.	3,424,458	01-28-1969	Hopps, Jr.	
	12.	3,720,172	03-13-1973	Dehne	
	13.	3,780,663	12-25-1973	Pettit	
	14.	3,985,082	10-12-1976	Barac	
	15.	4,243,147	01-06-1981	Twitchell et al.	
	16.	4,360,307	11-23-1982	Larsson	
	17.	4,372,452	02-08-1983	McCord	
	18.	4,427,398	01-24-1984	Eisbrecher et al.	
	19.	4,606,082	08-19-1986	Kuhlman	
	20.	4,627,119	12-09-1986	Hachey et al.	
	21.	4,639,955	02-03-1987	Carminati et al.	
	22.	4,706,782	11-17-1987	Spoeler et al.	
	23.	4,944,056	07-31-1990	Schroeder et al.	
	24.	5,048,822	09-17-1991	Murphy	
	25.	5,138,953	08-18-1992	Horcher et al.	
	26.	5,337,908	08-16-1994	Beck, Jr.	
	27.	5,490,293	02-13-1996	Nilsson	
	28.	5,511,486	04-30-1996	Pollard et al.	
	29.	5,632,206	05-27-1997	Summa et al.	
	30.	5,638,755	06-17-1997	Love et al.	
	31.	5,695,432	12-09-1997	Soderlund	
	32.	5,809,591	09-22-1998	Capaldi et al.	
	33.	5,850,928	12-22-1998	Kahlman et al.	
	34.	5,904,099	05-18-1999	Danneker	
	35.	6,080,087	06-27-2000	Bingham	

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.K.A/

Receipt date: 12/06/2019

15/896,731 - GAU: 3784

PTO/SB/08b (07-09)

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		Filing Date	February 14, 2018		
		First Named Inventor	Keith MCBRIDE		
		Art Unit	3784		
		Examiner Name	Garrett K. ATKINSON		
Sheet	2	of	6	Attorney Docket Number	BION-051/12US 307799-2333

U. S. PATENT DOCUMENTS					
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		Number-Kind Code ² (if known)			
	36.	6,192,803	02-27-2001	Nishino	
	37.	6,315,138	11-13-2001	Dyson	
	38.	6,464,208	10-15-2002	Smith	
	39.	6,520,484	02-18-2003	Shimizu et al.	
	40.	6,645,126	11-11-2003	Martin et al.	
	41.	6,679,185	01-20-2004	Sullivan et al.	
	42.	6,890,288	05-10-2005	Bingham	
	43.	7,137,771	11-21-2006	Maurer et al.	
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	45.	7,303,049	12-04-2007	Greenlee	
	46.	7,377,377	05-27-2008	Christiansson	
	47.	7,462,138	12-09-2008	Shetty et al.	
	48.	7,618,223	11-17-2009	Begley	
	49.	7,883,450	02-08-2011	Hidler	
	50.	7,938,757	05-10-2011	Cockrell	
	51.	7,993,248	08-09-2011	Rasmussen	
	52.	8,397,320	03-19-2013	Capaldi	
	53.	8,584,274	11-19-2013	Hushek	
	54.	8,789,682	07-29-2014	Fisher	
	55.	8,978,905	03-17-2015	Bergenstrale et al.	
	56.	9,510,991	12-06-2016	Stockmaster et al.	
	57.	9,682,000	06-20-2017	Glukhovsky	
	58.	9,839,569	12-12-2017	Behnke et al.	
	59.	9,855,177	01-02-2018	Erturk et al.	
	60.	10,219,960	03-05-2019	Behnke et al.	
	61.	2001/0027149	10-04-2001	Bingham	
	62.	2003/0084508	05-08-2003	Faucher et al.	
	63.	2003/0146069	08-07-2003	Kaiser	
	64.	2003/0153438	08-14-2003	Gordon et al.	
	65.	2003/0200607	10-30-2003	Faucher et al.	
	66.	2003/0201374	10-30-2003	Faucher et al.	
	67.	2004/0074414	04-22-2004	Phillips	
	68.	2004/0143198	07-22-2004	West	
	69.	2004/0200795	10-14-2004	Summa	
	70.	2005/0115914	06-02-2005	Chepurny et al.	

Examiner Signature		Date Considered	
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Receipt date: 12/06/2019

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Complete if Known			
		Application Number	15/896,731		
		Filing Date	February 14, 2018		
		First Named Inventor	Keith MCBRIDE		
		Art Unit	3784		
		Examiner Name	Garrett K. ATKINSON		
Sheet	5	of	6	Attorney Docket Number	BION-051/12US 307799-2333

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	106.	Office Action for U.S. Application No. 13/745,830, mailed June 15, 2015, 9 pages	
	107.	Office Action for U.S. Application No. 13/745,830, mailed December 17, 2015, 9 pages	
	108.	Office Action for U.S. Application No. 13/745,830, mailed June 2, 2016, 11 pages	
	109.	Office Action for U.S. Application No. 14/226,021, mailed September 14, 2016, 13 pages	
	110.	Office Action for U.S. Application No. 14/226,021, mailed February 22, 2017, 11 pages	
	111.	Office Action for U.S. Application No. 14/613,140, mailed August 28, 2017, 25 pages	
	112.	Office Action for U.S. Application No. 14/613,140, mailed March 26, 2018, 28 pages	
	113.	Office Action for U.S. Application No. 14/613,140, mailed October 30, 2018, 28 pages	
	114.	Office Action for U.S. Application No. 15/783,755, mailed May 7, 2018, 13 pages	
	115.	Office Action for U.S. Application No. 15/349,390, mailed January 17, 2019, 15 pages	
	116.	Extended European Search Report for European Application No. 14740676.3, mailed August 18, 2016, 6 pages	
	117.	European Examination Report for European Application No. 14740676.3, mailed June 14, 2019, 5 pages	
	118.	Extended European Search Report for European Application No. 16747097.0, mailed July 27, 2018, 8 pages	
	119.	Extended European Search Report for European Application No. 16865093.5, mailed April 2, 2019, 6 pages	
	120.	Notice of Reasons for Rejection for Japanese Application No. 2015-553851, mailed July 4, 2016, 9 pages	✓

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.K.A/

Receipt date: 12/06/2019

15/896,731 - GAU: 3784

PTO/SB/08b (07-09)

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Complete if Known			
		Application Number	15/896,731		
		Filing Date	February 14, 2018		
		First Named Inventor	Keith MCBRIDE		
		Art Unit	3784		
		Examiner Name	Garrett K. ATKINSON		
Sheet	6	of	6	Attorney Docket Number	BION-051/12US 307799-2333

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	121.	Notice of Reasons for Rejection for Japanese Application No. 2017-052240, mailed January 15, 2018, 9 pages	✓
	122.	Final Notice of Reasons for Rejection for Japanese Application No. 2017-052240, mailed July 19, 2018, 4 pages	✓
	123.	Notice of Reasons for Rejection for Japanese Application No. 2017-534701, mailed October 16, 2019, 16 pages	✓
	124.	International Search Report and Written Opinion for International Application No. PCT/US2014/012064, mailed May 9, 2014, 6 pages	
	125.	International Search Report and Written Opinion for International Application No. PCT/US2016/016131, mailed April 21, 2016, 10 pages	
	126.	International Search Report and Written Opinion for International Application No. PCT/US2016/061552, mailed January 31, 2017, 10 pages	
	127.	International Search Report and Written Opinion for International Application No. PCT/US2017/050482, mailed December 21, 2017, 9 pages	
	128.	International Search Report and Written Opinion for International Application No. PCT/US2018/018166, mailed July 2, 2018, 11 pages	
	129.	VALLERY, H. et al., "Multidirectional Transparent Support for Overground Gait Training," 2013 IEEE International Conference on Rehabilitation Robotics, Seattle, WA (June 2013), 7 pages	
	130.	VAHLE Electrification Systems, "Enclosed Conductor System KBH," Catalogue, 2014, 28 pages	

Examiner Signature	/GARRETT K ATKINSON/	Date Considered	12/22/2019
--------------------	----------------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

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Application	Document	Mailroom Date	Attorney Docket No.
15896731	NOA	01/10/2020	BION-051/12US 307799-2333
	1449	01/10/2020	BION-051/12US 307799-2333

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/896,731	02/14/2018	Keith MCBRIDE	BION-051/12US 307799-2333	4706
58249 7590 03-03/2020 COOLEY LLP ATTN: IP Docketing Department 1299 Pennsylvania Avenue, NW Suite 700 Washington, DC 20004			EXAMINER ATKINSON, GARRETT K	
			ART UNIT 3784	PAPER NUMBER
			NOTIFICATION DATE 03/03/2020	DELIVERY MODE ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

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Commissioner for Patents
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P.O. Box 1450
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www.uspto.gov

Application No. : 15896731
Applicant : McBride
Filing Date : 02/14/2018
Date Mailed : 03/03/2020

NOTICE TO FILE CORRECTED APPLICATION PAPERS

Notice of Allowance Mailed

This application has been accorded an Allowance Date and is being prepared for issuance. The application, however, is incomplete for the reasons below.

Applicant is given two (2) months from the mail date of this Notice within which to respond. This time period for reply is extendable under 37 CFR 1.136(a) for only TWO additional MONTHS.

The informalities requiring correction are indicated in the attachment(s). If the informality pertains to the abstract, specification (including claims) or drawings, the informality must be corrected with an amendment in compliance with 37 CFR 1.121 (or, if the application is a reissue application, 37 CFR 1.173). Such an amendment may be filed after payment of the issue fee if limited to correction of informalities noted herein. See Waiver of 37 CFR 1.312 for Documents Required by the Office of Patent Publication, 1280 Off. Gaz. Patent Office 918 (March 23, 2004). In addition, if the informality is not corrected until after payment of the issue fee, for purposes of 35 U.S.C. 154(b)(1)(iv), "all outstanding requirements" will be considered to have been satisfied when the informality has been corrected. A failure to respond within the above-identified time period will result in the application being ABANDONED.

See attachment(s).

*A copy of this notice **MUST** be returned with the reply. Please address response to
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/Steven Barbano/
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(571) 272-4200

Application No. 15896731

Drawings filed: 02/14/2018

IDENTIFICATION OF DRAWING DEFICIENCIES

- ☐ There is a hole or the image thereof within the illustration. FIG(s)
- ☐ The illustration is penetrated or traversed by a solid or broken line that is not intended to be part of the drawing, such as a dark line caused by a flaw in the copying process. FIG(s)
- ☐ An ink stamp or the image thereof obscures part of the illustration. FIG(s)
- ☐ The drawing is marred by black smudges, obliterations, or fax/copier marks (for example, speckles or dots in a substantial portion of the drawing). FIG(s)
- ☐ Figure numbers are duplicated or missing. FIG(s)
- ☐ Drawing sheet or figure is missing. FIG(s)
- ☐ Numbers, letters, or reference characters in the drawing have been crossed out or are illegibly handwritten. FIG(s)
- ☐ The character of the lines, numbers, and letters is poor. FIG(s)
- ☐ The drawing's background shows that the original drawing was made on graph paper or other paper with a pattern or decoration. FIG(s)
- ☐ The FIG. number label is placed in a location that causes the drawing to be read upside down. FIG(s)
- ☐ Data, a reference number, or part of the drawing is truncated or missing, or a lead line has no reference number. FIG(s)
- ☐ The drawing and/or the FIG. label contain(s) foreign language. FIG(s)
- ☒ This utility application contains a photograph of a view that is capable of being illustrated as a line drawing. FIG(s) 38-44 and 72-73
- ☐ A petition under 37 CFR 1.84(a)(2) to accept color drawings has been granted, but the brief description of the drawings in the specification does not contain (or has not been amended to contain) the paragraph required by 37 CFR 1.84(a)(2)(iii).
- ☐ This reissue application contains added and/or amended drawings that are not labeled as "New" or "Amended" or "Canceled" as required by 37 CFR 1.173(b)(3). FIG(s)
- ☐ This Design reissue application contains a drawing that is labeled as "Canceled" but is not surrounded by brackets, or a drawing that is surrounded by brackets but is not labeled as "Canceled." See 37 CFR 1.173(b)(3). FIG(s)
- ☒ OTHER: Fig. 50 contains overlapping data.
- ☐ COMMENTS:

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Application	Document	Mailroom Date	Attorney Docket No.
15896731	M327	03/03/2020	BION-051/12US 307799-2333

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Attorney Docket No. BION-051/12US 307799-2333

PTO/AIA/01 (08-12)

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**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN
APPLICATION DATA SHEET (37 CFR 1.76)****Title of
Invention**

METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM

As the below named inventor, I hereby declare that:

This declaration ☐ The attached application, or
is directed to:☒ United States application or PCT international application number 15/896,731
filed on 02/14/2018

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001
by fine or imprisonment of not more than five (5) years, or both.**WARNING:**

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

LEGAL NAME OF INVENTORInventor: Keith MCBRIDEDate (Optional): 3/21/2018Signature: 

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/D1 form for each additional inventor.

Attorney Docket No. BION-051/12US 307799-2333

PTO/AIA/01 (08-12)

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**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN
APPLICATION DATA SHEET (37 CFR 1.76)****Title of
Invention****METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM**

As the below named inventor, I hereby declare that:

This declaration ☐ The attached application, or
is directed to:
☒ United States application or PCT international application number 15/896,731
filed on 02/14/2018

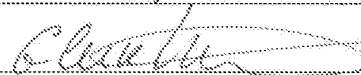
The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

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LEGAL NAME OF INVENTORInventor: Arkady GLUKHOVSKYDate (Optional): 03/15/2018Signature: 

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

Attorney Docket No. BION-051/12US 307799-2333

PTO/AIA/01 (06-12)

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**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN
APPLICATION DATA SHEET (37 CFR 1.76)****Title of
Invention**

METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM

As the below named inventor, I hereby declare that:

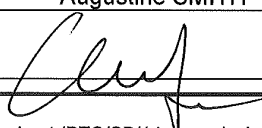
This declaration ☐ The attached application, or
is directed to:☒ United States application or PCT international application number 15/896,731
filed on 02/14/2018.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001
by fine or imprisonment of not more than five (5) years, or both.**WARNING:**

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LEGAL NAME OF INVENTORInventor: Augustine SMITHDate (Optional): 03/19/2018Signature: 

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

Electronic Acknowledgement Receipt	
EFS ID:	38878138
Application Number:	15896731
International Application Number:	
Confirmation Number:	4706
Title of Invention:	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM
First Named Inventor/Applicant Name:	Keith MCBRIDE
Customer Number:	58249
Filer:	Michael D. Winternitz/Rebecca Phelan
Filer Authorized By:	Michael D. Winternitz
Attorney Docket Number:	BION-051/12US 307799-2333
Receipt Date:	16-MAR-2020
Filing Date:	14-FEB-2018
Time Stamp:	16:16:07
Application Type:	Utility under 35 USC 111(a)

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Docket No.: BION-051/12US 307799-2333
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Inventor:	Keith MCBRIDE	Confirmation No.:	4706
Application No.:	15/896,731	Group Art Unit:	3784
Filed:	February 14, 2018	Examiner:	Garrett K. ATKINSON
For:	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM		

Via EFS or
MS Amendment
Commissioner for Patents
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Alexandria, VA 22313-1450

**RESPONSE TO NOTICE TO FILE CORRECTED APPLICATION PAPERS AND
AMENDMENT UNDER 37 C.F.R. § 1.312**
Notice of Allowance Mailed

In response to the Notice to File Corrected Application Papers dated March 3, 2020, the response to which is due May 3, 2020, the Applicant submits the following Amendments and Remarks. The Applicant further submits herewith a copy of the Notice to File Corrected Application Papers.

Amendments to the Drawings begin on page 2 of this paper.

Amendments to the Claims begin on page 3 of this paper.

Remarks begin on page 8 of this paper.

Replacement Sheet

1/7

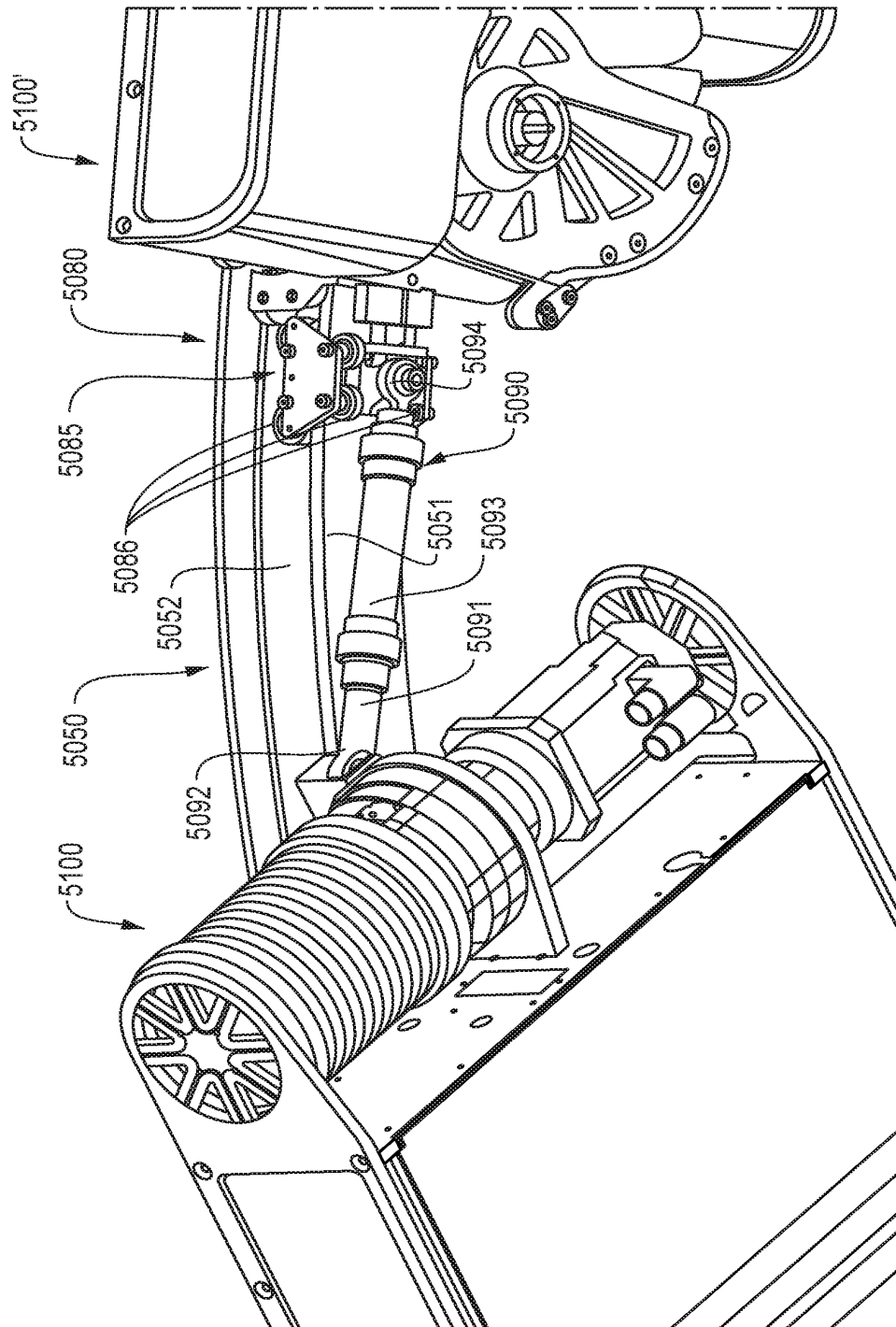


FIG. 38

Replacement Sheet

2/7

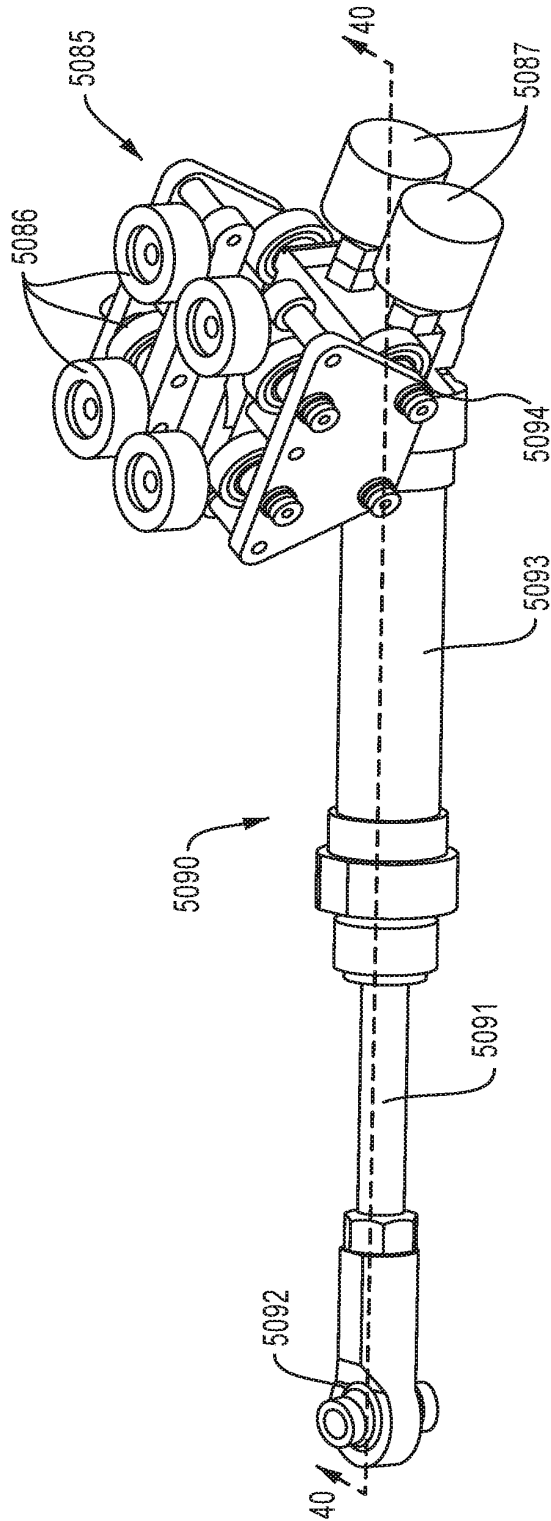


FIG. 39

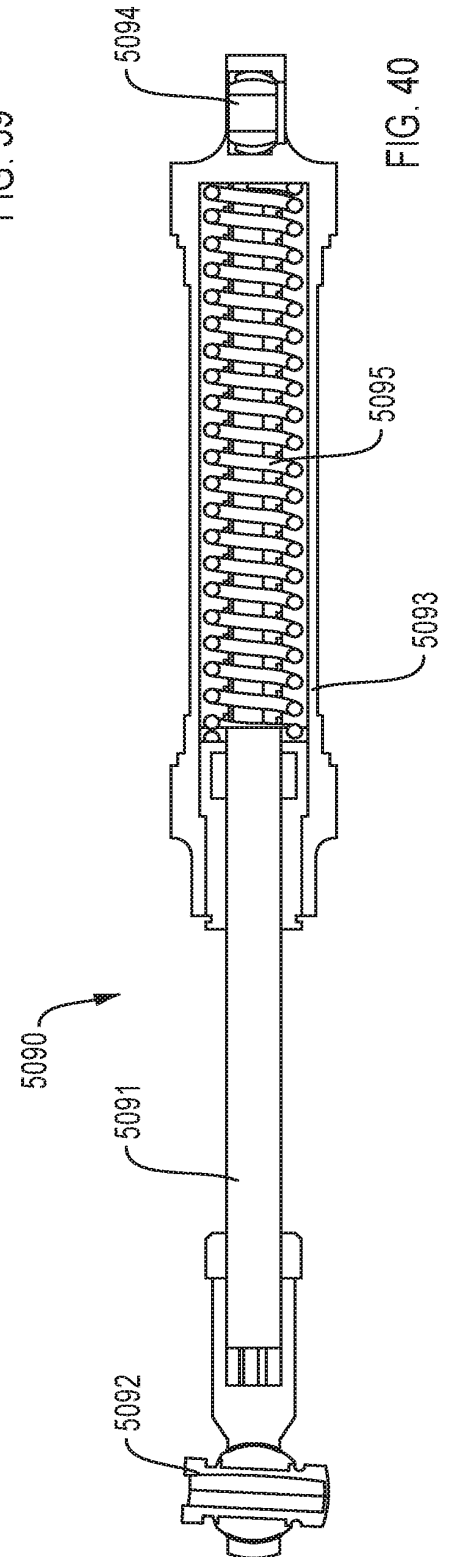


FIG. 40

Replacement Sheet

3/7

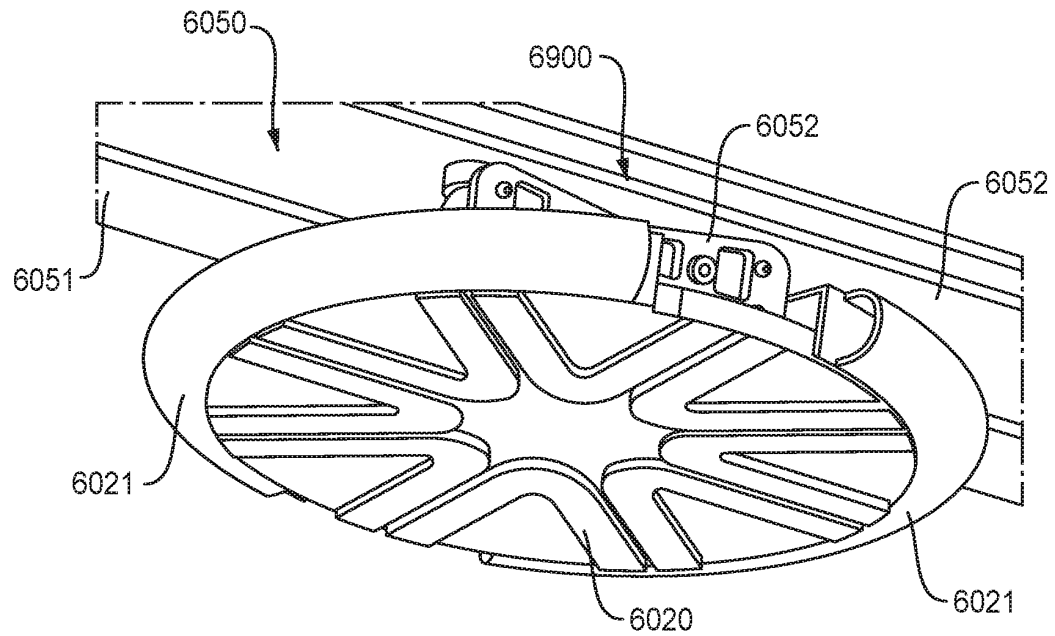


FIG. 41

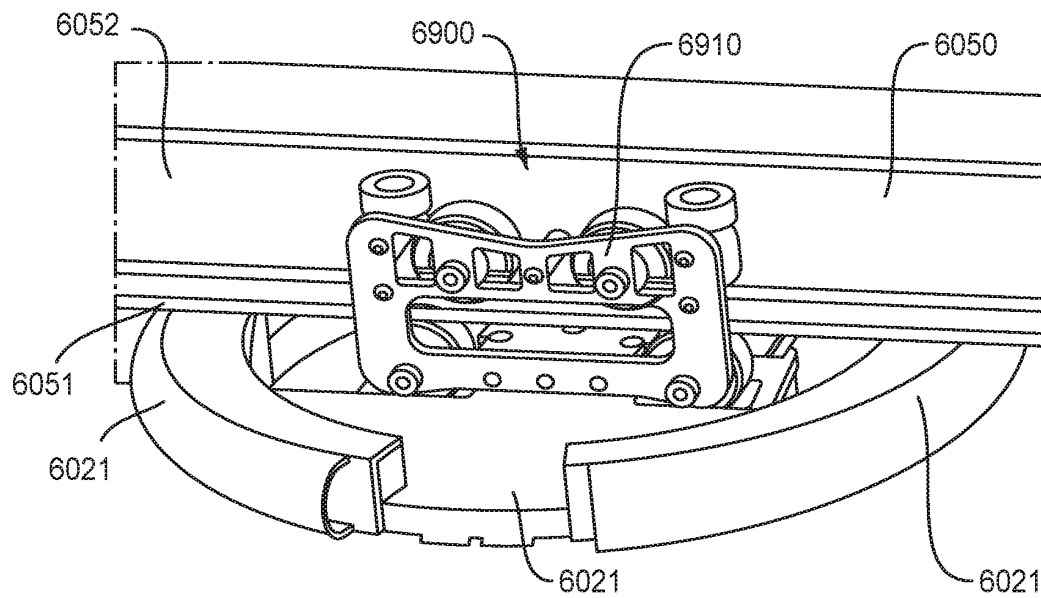
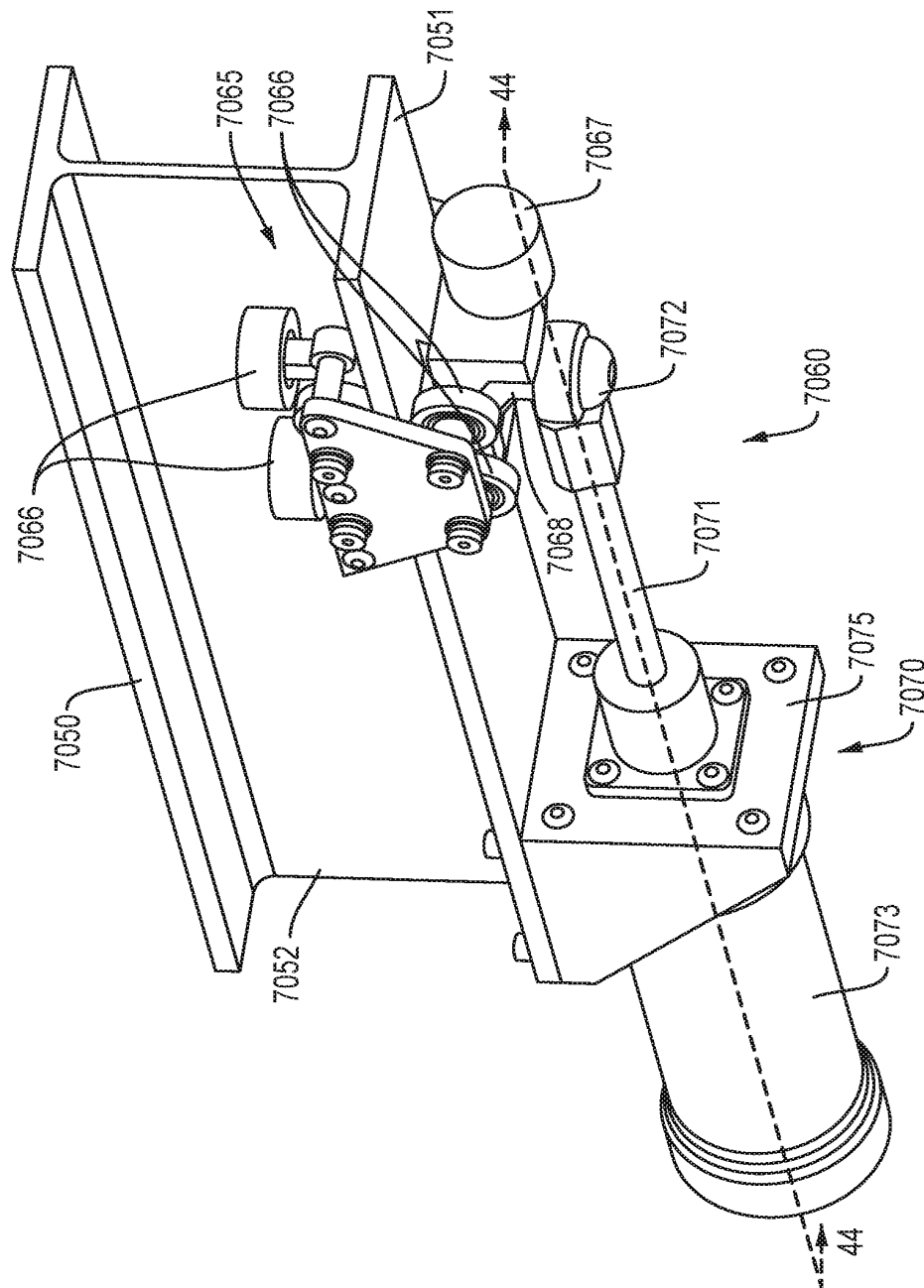


FIG. 42

Replacement Sheet

4/7



Replacement Sheet

5/7

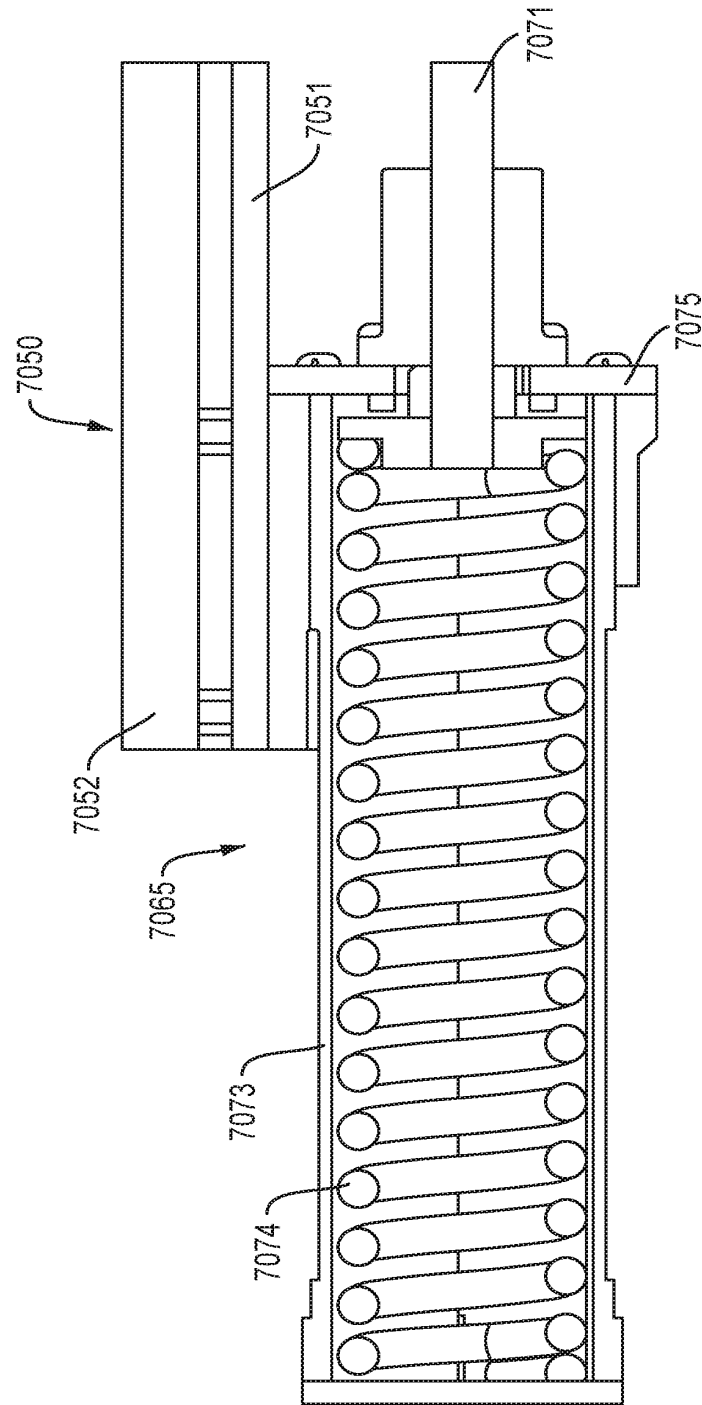


FIG. 44

Replacement Sheet

6/7

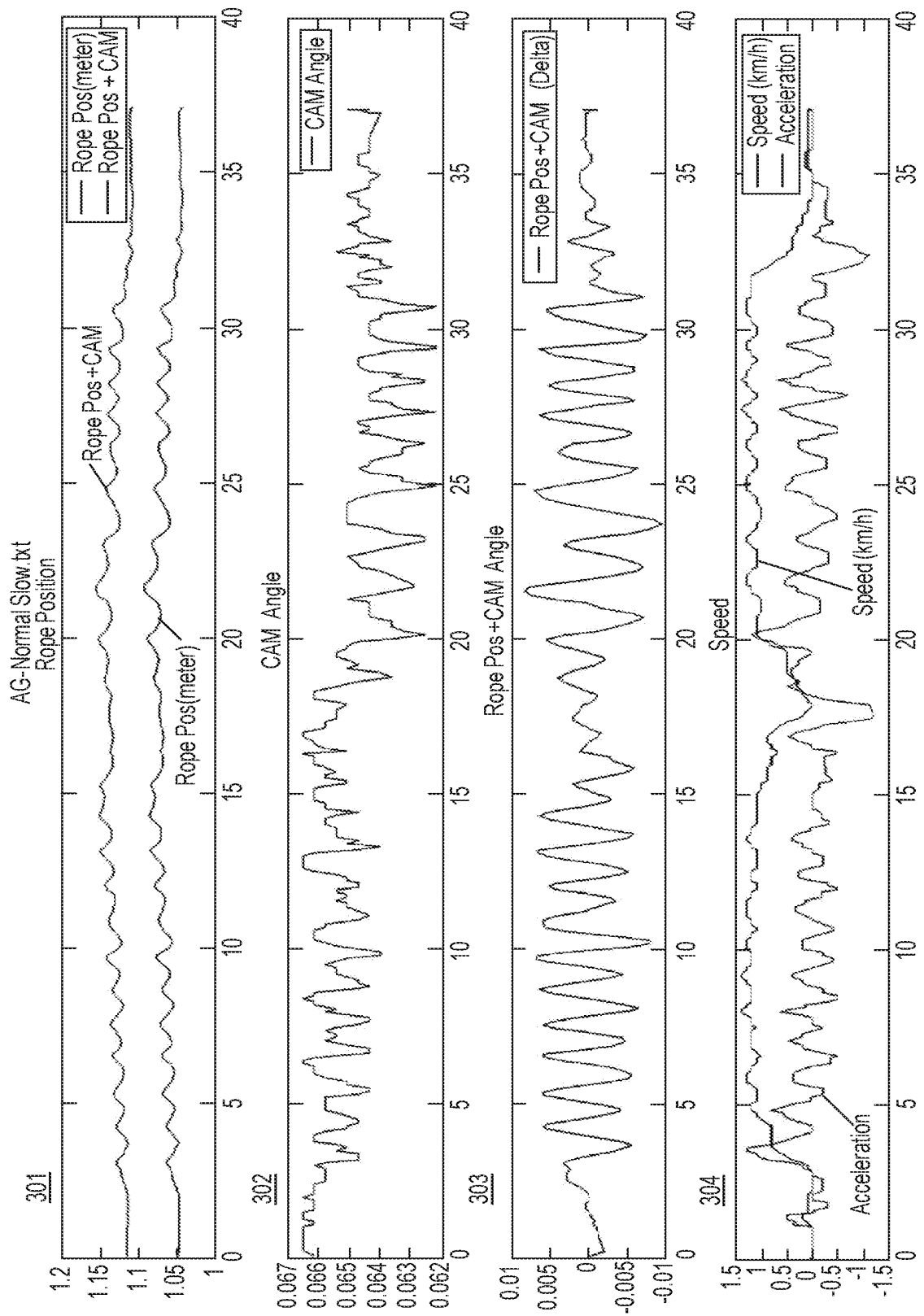


FIG. 50

Replacement Sheet

7/7

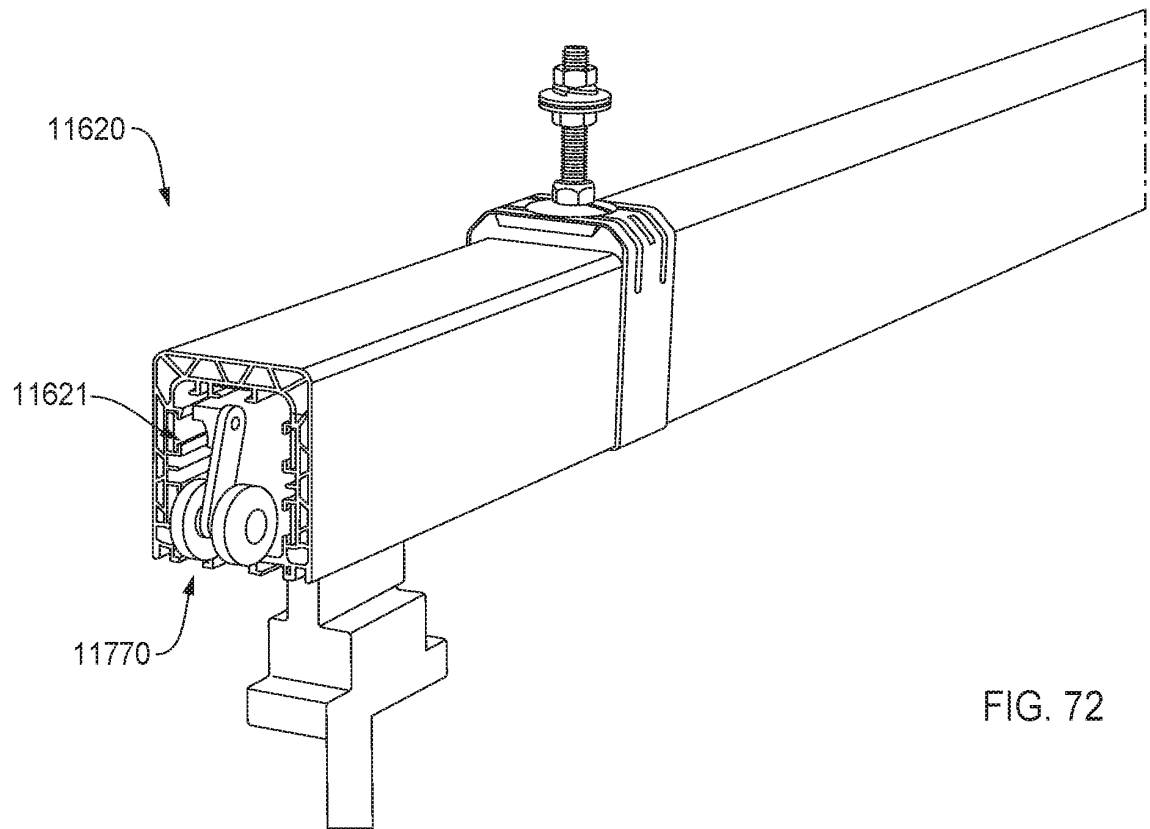


FIG. 72

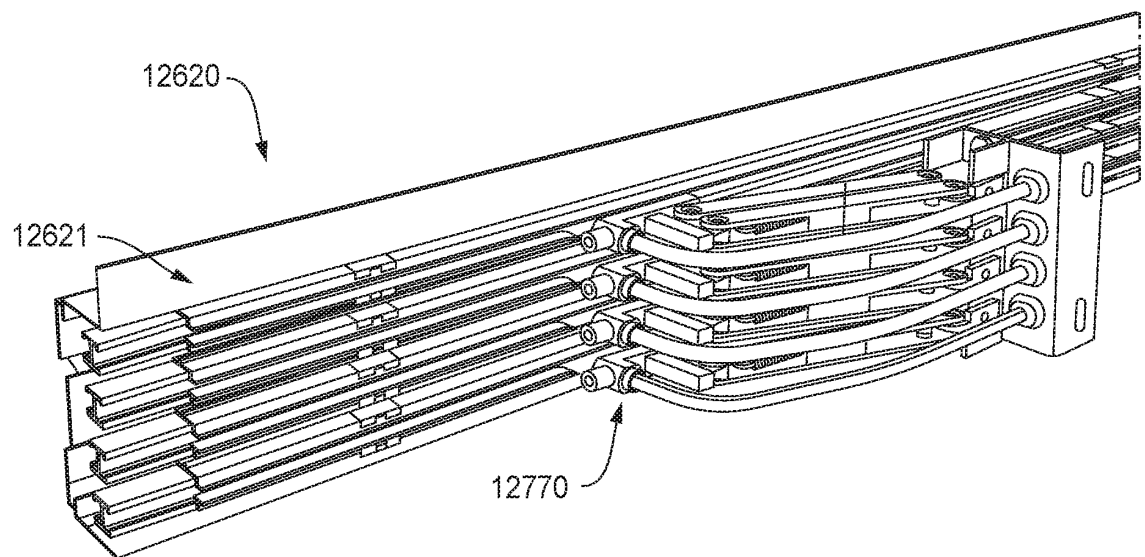


FIG. 73

STATEMENT UNDER 37 CFR 3.73(c)Applicant/Patent Owner: Bioness, Inc.Application No./Patent No.: 15/896,731 Filed/Issue Date: February 14, 2018Titled: METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEMBioness Inc., a Corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that, for the patent application/patent identified above, it is (choose one of options 1, 2, 3 or 4 below):

1. ☒ The assignee of the entire right, title, and interest.
2. ☐ An assignee of less than the entire right, title, and interest (check applicable box):
- ☐ The extent (by percentage) of its ownership interest is _____. Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.
- ☐ There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

3. ☐ The assignee of an undivided interest in the entirety (a complete assignment from one of the joint inventors was made). The other parties, including inventors, who together own the entire right, title, and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

4. ☐ The recipient, via a court proceeding or the like (e.g., bankruptcy, probate), of an undivided interest in the entirety (a complete transfer of ownership interest was made). The certified document(s) showing the transfer is attached.

The interest identified in option 1, 2 or 3 above (not option 4) is evidenced by either (choose one of options A or B below):

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 051175, Frame 0058, or for which a copy thereof is attached.
- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

2. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

[Page 1 of 2]

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

STATEMENT UNDER 37 CFR 3.73(c)

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
 Reel _____, Frame _____, or for which a copy thereof is attached.

4. From: _____ To: _____

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 Reel _____, Frame _____, or for which a copy thereof is attached.

5. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
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6. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
 Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

☒ As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/Michael D. Winternitz/

2020-04-10

Signature

Date

Michael D. Winternitz

73102

Printed or Typed Name

Title or Registration Number

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
 United States Patent and Trademark Office
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 P.O. Box 1450
 Alexandria, Virginia 22313-1450
 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/896,731	02/14/2018	Keith MCBRIDE	BION-051/12US 307799-2333	4706
58249 7590 03-03/2020 COOLEY LLP ATTN: IP Docketing Department 1299 Pennsylvania Avenue, NW Suite 700 Washington, DC 20004			EXAMINER ATKINSON, GARRETT K	
			ART UNIT 3784	PAPER NUMBER
			NOTIFICATION DATE 03/03/2020	DELIVERY MODE ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

zIPPatentDocketingMailboxUS@cooley.com



UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
www.uspto.gov

Application No. : 15896731
Applicant : McBride
Filing Date : 02/14/2018
Date Mailed : 03/03/2020

NOTICE TO FILE CORRECTED APPLICATION PAPERS

Notice of Allowance Mailed

This application has been accorded an Allowance Date and is being prepared for issuance. The application, however, is incomplete for the reasons below.

Applicant is given two (2) months from the mail date of this Notice within which to respond. This time period for reply is extendable under 37 CFR 1.136(a) for only TWO additional MONTHS.

The informalities requiring correction are indicated in the attachment(s). If the informality pertains to the abstract, specification (including claims) or drawings, the informality must be corrected with an amendment in compliance with 37 CFR 1.121 (or, if the application is a reissue application, 37 CFR 1.173). Such an amendment may be filed after payment of the issue fee if limited to correction of informalities noted herein. See Waiver of 37 CFR 1.312 for Documents Required by the Office of Patent Publication, 1280 Off. Gaz. Patent Office 918 (March 23, 2004). In addition, if the informality is not corrected until after payment of the issue fee, for purposes of 35 U.S.C. 154(b)(1)(iv), "all outstanding requirements" will be considered to have been satisfied when the informality has been corrected. A failure to respond within the above-identified time period will result in the application being ABANDONED.

See attachment(s).

*A copy of this notice **MUST** be returned with the reply. Please address response to
"Mail Stop Issue Fee, Commissioner for Patents,
P.O. Box 1450, Alexandria, VA 22313-1450".*

/Steven Barbano/
Publication Branch
Office of Data Management
(571) 272-4200

Application No. 15896731

Drawings filed: 02/14/2018

IDENTIFICATION OF DRAWING DEFICIENCIES

- ☐ There is a hole or the image thereof within the illustration. FIG(s)
- ☐ The illustration is penetrated or traversed by a solid or broken line that is not intended to be part of the drawing, such as a dark line caused by a flaw in the copying process. FIG(s)
- ☐ An ink stamp or the image thereof obscures part of the illustration. FIG(s)
- ☐ The drawing is marred by black smudges, obliterations, or fax/copier marks (for example, speckles or dots in a substantial portion of the drawing). FIG(s)
- ☐ Figure numbers are duplicated or missing. FIG(s)
- ☐ Drawing sheet or figure is missing. FIG(s)
- ☐ Numbers, letters, or reference characters in the drawing have been crossed out or are illegibly handwritten. FIG(s)
- ☐ The character of the lines, numbers, and letters is poor. FIG(s)
- ☐ The drawing's background shows that the original drawing was made on graph paper or other paper with a pattern or decoration. FIG(s)
- ☐ The FIG. number label is placed in a location that causes the drawing to be read upside down. FIG(s)
- ☐ Data, a reference number, or part of the drawing is truncated or missing, or a lead line has no reference number. FIG(s)
- ☐ The drawing and/or the FIG. label contain(s) foreign language. FIG(s)
- ☒ This utility application contains a photograph of a view that is capable of being illustrated as a line drawing. FIG(s) 38-44 and 72-73
- ☐ A petition under 37 CFR 1.84(a)(2) to accept color drawings has been granted, but the brief description of the drawings in the specification does not contain (or has not been amended to contain) the paragraph required by 37 CFR 1.84(a)(2)(iii).
- ☐ This reissue application contains added and/or amended drawings that are not labeled as "New" or "Amended" or "Canceled" as required by 37 CFR 1.173(b)(3). FIG(s)
- ☐ This Design reissue application contains a drawing that is labeled as "Canceled" but is not surrounded by brackets, or a drawing that is surrounded by brackets but is not labeled as "Canceled." See 37 CFR 1.173(b)(3). FIG(s)
- ☒ OTHER: Fig. 50 contains overlapping data.
- ☐ COMMENTS:

Application No.: 15/896,731

Docket No.: BION-051/12US 307799-2333

REMARKS

Entry of the foregoing amendments to the drawings is respectfully requested in view of the following remarks. Replacement Sheets 1-7 are submitted herewith to remedy the purported deficiencies identified in the Notice to File Corrected Application Papers and introduce no new matter. Please replace the originally filed drawing sheets as follows:

Replacement Sheet 1 illustrating FIG. 38 replaces Drawing Sheet 35;
Replacement Sheet 2 illustrating FIGS. 39 and 40 replaces Drawing Sheet 36;
Replacement Sheet 3 illustrating FIGS. 41 and 42 replaces Drawing Sheet 37;
Replacement Sheet 4 illustrating FIG. 43 replaces Drawing Sheet 38;
Replacement Sheet 5 illustrating FIG. 44 replaces Drawing Sheet 39;
Replacement Sheet 6 illustrating FIG. 50 replaces Drawing Sheet 44; and
Replacement Sheet 7 illustrating FIGS. 72 and 73 replaces Drawing Sheet 64.

Entry of the foregoing amendment to the claims under 37 C.F.R. § 1.312 is respectfully requested in view of the following remarks. Specifically, claim 12 has been amended to correct a typographical error and does not substantially change the scope of the claim. Accordingly, no additional search or examination is required on the part of the Office.

Application No.: 15/896,731

Docket No.: BION-051/12US 307799-2333

Conclusion

The Applicant respectfully requests that the Examiner enter the foregoing amendments prior to issuance. Should any questions arise in connection with these amendments, the Examiner is invited to telephone the undersigned at the number provided.

The Director is hereby authorized to charge any appropriate fees under 37 C.F.R. §§1.16, 1.17, and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 50-1283 **referencing Docket No. BION-051/12US 307799-2333.**

Dated: April 10, 2020

Respectfully submitted,
COOLEY LLP

COOLEY LLP
ATTN: IP Docketing Department
1299 Pennsylvania Avenue NW, Suite 700
Washington, DC 20004

By: /Michael D. Winternitz/
Michael D. Winternitz
Reg. No. 73,102

Tel: (202) 728-7034
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223723790 v1

Application No.: 15/896,731

Docket No.: BION-051/12US 307799-2333

In the Claims:

Set forth below in ascending order, with status identifiers, is a complete listing of all claims currently under examination. Changes to any amended claims are indicated by [[double brackets]], ~~striketrough~~ and/or underlining. This listing also reflects any cancellation and/or addition of claims. No new matter is added by these amendments.

1. (Previously Presented) A method of using a body weight support system to provide body weight support during gait training, the body weight support system including a drive assembly configured to movably suspend the body weight support system from a support track and a tether configured to be coupled to an attachment device worn by a user to couple the user to the body weight support system, the method comprising:

defining a reference length of the tether when the attachment device is in an initial position;

defining a threshold length of the tether;

providing a first amount of body weight support during the gait training as the user moves relative to a surface and the length of the tether is less than the threshold length of the tether;

providing a second amount of body weight support during the gait training as the user moves relative to the surface and the length of the tether is greater than the threshold length of the tether, the drive assembly configured to move the body weight support system relative to the support track to maintain the body weight support system in a substantially overhead position relative to the user as the user moves relative to the surface; and

displaying data associated with the gait training on a display of an electronic device included in the body weight support system.

2. (Original) The method of claim 1, wherein the length of the tether is increased in response to an increase in force exerted by the user on the tether.

3. (Original) The method of claim 2, wherein the increase in the force exerted by the user on the tether is associated with the user falling during the gait training.

Application No.: 15/896,731

Docket No.: BION-051/12US 307799-2333

4. (Original) The method of claim 1, wherein the surface relative to which the user moves is a stationary surface.
5. (Canceled)
6. (Original) The method of claim 1, wherein the surface relative to which the user moves is a moving surface included in a treadmill.
7. (Original) The method of claim 6, wherein displaying the data associated with the gait training on the display includes displaying data associated with an operating condition of the body weight support system and an operating condition of the treadmill.
8. (Previously Presented) A method of using a body weight support system to provide body weight support during gait training, the body weight support system including a tether configured to be coupled to an attachment device worn by a user to couple the user to the body weight support system, the method comprising:
 - defining a reference length of the tether when the attachment device is in an initial position;
 - defining a first criterion associated with a change in a length of the tether;
 - defining a second criterion associated with a change in a length of the tether;
 - defining an amount of the body weight support to provide in response to the user falling during the gait training;
 - maintaining the body weight support system in a substantially overhead position relative to the user as the user moves relative to a surface;
 - determining a fall has occurred based on the first criterion and the second criterion being satisfied; and
 - providing the amount of body weight support in response to the first criterion and the second criterion being satisfied.

Application No.: 15/896,731

Docket No.: BION-051/12US 307799-2333

9. (Original) The method of claim 8, wherein the first criterion is a rate of change in the length of the tether.
10. (Original) The method of claim 8, wherein the second criterion is a duration during which the length of the tether is changed.
11. (Original) The method of claim 10, wherein the second criterion is a minimum duration.
12. (Currently Amended) The method of claim 8, wherein the first criterion is a rate of change in the length of the tether, the second criterion is a duration during which the length of the tether is changed, and the amount of ~~body~~body weight support provided in response to the first criterion and the second criterion being satisfied is a first amount of body weight support, the method further comprising:
 - providing a second amount of body weight support when at least one of the first criterion or the second criterion is not satisfied, the second amount of body weight support being less than the first amount of body weight support.
13. (Original) The method of claim 8, further comprising:
 - redefining the reference length of the tether in response to a change in the length of the tether that does not satisfy at least one of the first criterion or the second criterion.
14. (Original) A method of using a body weight support system to provide body weight support during gait training, the body weight support system including tether configured to be coupled to an attachment device worn by a user to couple the user to the body weight support system, the method comprising:
 - defining a reference length of the tether when the attachment device is in an initial position;
 - defining a threshold length of the tether, the threshold length of the tether being associated with the user falling during the gait training;
 - defining a threshold number of falls during the gait training;

Application No.: 15/896,731

Docket No.: BION-051/12US 307799-2333

providing a predetermined amount of body weight support during the gait training as the user moves relative to a surface and the number of falls is less than the threshold number of falls;

increasing the predetermined amount of body weight support to be provided to the user during the gait training in response to the threshold number of falls being met; and

displaying data associated with the gait training on a display of an electronic device included in the body weight support system.

15. (Original) The method of claim 14, wherein the surface relative to which the user moves is a stationary surface.

16. (Original) The method of claim 15, wherein the body weight support system includes a drive assembly configured to movably suspend the body weight support system from a support track, the drive assembly configured to move the body weight support system relative to the support track in response to the user moving relative to the surface such that the body weight support system is maintained in a substantially overhead position relative to the user.

17. (Original) The method of claim 14, wherein the surface relative to which the user moves is a moving surface included in a treadmill.

18. (Original) The method of claim 17, wherein displaying the data associated with the gait training on the display includes displaying data associated with an operating condition of the body weight support system and an operating condition of the treadmill.

19. (Original) The method of claim 14, wherein providing the predetermined amount of body weight support during the gait training as the user moves relative to the surface is in response to a length of the tether exceeding the threshold length of the tether.

20. (Original) The method of claim 14, wherein the reference length of the tether is a first reference length of the tether, the method further comprising:

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defining a second reference length of the tether in response to the threshold number of falls being met, the second reference length of the tether being shorter than the first reference length of the tether.

Application No.: 15/896,731

Docket No.: BION-051/12US 307799-2333

AMENDMENTS

In the Drawings

Please amend the Drawings with Replacement Sheets 1-7 submitted herewith. No new matter is added by these amendments.

PTO/AIA/80 (07-12)

Approved for use through 11/30/2014. OMB 0651-0035

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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.

POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(c).

I hereby appoint:



Practitioners associated with Customer Number:

58249

OR



Practitioner(s) named below (If more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number

Name	Registration Number

As attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 CFR 3.73(c).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(c) to:



The address associated with Customer Number:

58249

OR



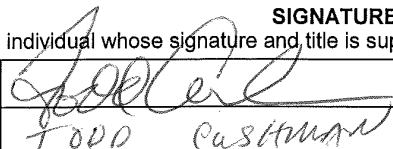
Firm or Individual Name		
Address		
City		
Country		
Telephone		Email

Assignee **Bioness Inc.**
25103 Rye Canyon Loop
Valencia, CA 91355

A copy of this form, together with a statement under 37 CFR 3.73(c) (Form PTO/SB/96 or equivalent) is required to be Filed in each application in which this form is used. The statement under 37 CFR 3.73(c) may be completed by one of The practitioners appointed in this form, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

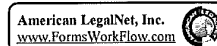
The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

Signature		Date	9/1/16
Name	Todd Cashman	Telephone	661-362-4848
Title	CEO		

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

136184448 v1



PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

58249 7590 01/10/2020
COOLEY LLP
ATTN: IP Docketing Department
1299 Pennsylvania Avenue, NW
Suite 700
Washington, DC 20004

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/896,731	02/14/2018	Keith MCBRIDE	BION-051/12US 307799-2333	4706

TITLE OF INVENTION: METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1000	\$0.00	\$0.00	\$1000	04/10/2020

EXAMINER	ART UNIT	CLASS-SUBCLASS
ATKINSON, GARRETT K	3784	482-139000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,

(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 Cooley LLP

2

3

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

Bioness Inc.

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Valencia, CA

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government4a. Fees submitted: ☒ Issue Fee ☐ Publication Fee (if required) ☐ Advance Order - # of Copies _____

4b. Method of Payment: (Please first reapply any previously paid fee shown above)

☒ Electronic Payment via EFS-Web ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

5. Change in Entity Status (from status indicated above)

☐ Applicant certifying micro entity status. See 37 CFR 1.29☐ Applicant asserting small entity status. See 37 CFR 1.27☐ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature /Michael D. Winternitz/Date April 10, 2020Typed or printed name Michael D. WinternitzRegistration No. 73,102

Electronic Patent Application Fee Transmittal				
Application Number:	15896731			
Filing Date:	14-Feb-2018			
Title of Invention:	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM			
First Named Inventor/Applicant Name:	Keith MCBRIDE			
Filer:	Michael D. Winternitz/Rebecca Phelan			
Attorney Docket Number:	BION-051/12US 307799-2333			
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
UTILITY APPL ISSUE FEE	1501	1	1000	1000

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				1000

Electronic Acknowledgement Receipt	
EFS ID:	39125095
Application Number:	15896731
International Application Number:	
Confirmation Number:	4706
Title of Invention:	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM
First Named Inventor/Applicant Name:	Keith MCBRIDE
Customer Number:	58249
Filer:	Michael D. Winternitz/Rebecca Phelan
Filer Authorized By:	Michael D. Winternitz
Attorney Docket Number:	BION-051/12US 307799-2333
Receipt Date:	10-APR-2020
Filing Date:	14-FEB-2018
Time Stamp:	14:21:30
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$ 1000
RAM confirmation Number	E202040E21500364
Deposit Account	501283
Authorized User	Rebecca Phelan
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 37 CFR 1.16 (National application filing, search, and examination fees) 37 CFR 1.17 (Patent application and reexamination processing fees)	

37 CFR 1.19 (Document supply fees)
 37 CFR 1.20 (Post Issuance fees)
 37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		BION-051-12US-ResponseToNFCAPand312Amendment.pdf	447562	yes	12
			4b904dc1cce0488018d0a775f07d9b2b9365d4d5		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Applicant Response to Pre-Exam Formalities Notice		10	12	
	Applicant Arguments/Remarks Made in an Amendment		8	9	
	Claims		3	7	
	Drawings-other than black and white line drawings		2	2	
	Amendment after Notice of Allowance (Rule 312)		1	1	
Warnings:					
Information:					
2	Drawings-only black and white line drawings	BION-051-12US-ReplacementDrawings.pdf	414258	no	7
			b83b5960f943106651355dfd4601405fff1faec		
Warnings:					
Information:					
3		BION-051-12US-Power.pdf	387446	yes	4
			97ecca7710cb4cda5cb9815c7b0375159123e19b		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Assignee showing of ownership per 37 CFR 3.73		2	4	
	Power of Attorney		1	1	
Warnings:					

Information:									
4	Issue Fee Payment (PTO-85B)	BION-051-12US-IssueFee.pdf	198450	no	1				
			d847b6c16a533c146adff697a3ccb6f84275d790f						
Warnings:									
Information:									
5	Fee Worksheet (SB06)	fee-info.pdf	30484	no	2				
			9cff00db971aa7e308a5345c86d21fde5bbb9bc4						
Warnings:									
Information:									
Total Files Size (in bytes):			1478200						
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.									

DocCode – SCORE

SCORE Placeholder Sheet for IFW Content

Application Number: 15896731

Document Date: 04/10/2020

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- Drawing

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Form Revision Date: March 1, 2019



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
15/896,731	02/14/2018	Keith MCBRIDE	BION-051/12US 307799-2333

CONFIRMATION NO. 4706**POA ACCEPTANCE LETTER**

58249
 COOLEY LLP
 ATTN: IP Docketing Department
 1299 Pennsylvania Avenue, NW
 Suite 700
 Washington, DC 20004

Date Mailed: 04/14/2020

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 04/10/2020.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at (571) 272-4000 or (571) 272-4200 or 1-888-786-0101.

/cgarner/

PRINTER RUSH
(PTO ASSISTANCE)Application: 15896731Examiner: AtkinsonGAU: 3784

From:

Location: RTFMCreation Date: 04/13/2020Week Date: 1/13/2020

<u>DOC CODE</u>	<u>DOC DATE</u>	<u>MISCELLANEOUS</u>
☐ 1449		☐ Continuing Data
☐ IDS		☐ Foreign Priority
☐ CLM		☐ Document Legibility
☐ IIFW/FWCLM		☐ Fees
☐ SRFW		☐ Petition (TC)
☐ DRW		☐ Other
☐ OATH		
☒ 312	<u>04/10/2020</u>	
☐ SPEC		

[RUSH] Message:

Please respond to the 04/10/2020 a.na.

Thank you

[XRUSH] Response:

Initials: _____

Examiner: PUBS contact - James Leija, (703) 756-1197

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REV: AUG 16

To: zIPPatentDocketingMailboxUS@cooley.com,,
From: PAIR_eOfficeAction@uspto.gov
Cc: PAIR_eOfficeAction@uspto.gov
Subject: Private PAIR Correspondence Notification for Customer Number 58249

Apr 14, 2020 04:13:22 AM

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Application	Document	Mailroom Date	Attorney Docket No.
15896731	N570	04/14/2020	BION-051/12US 307799-2333

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/896,731	02/14/2018	Keith MCBRIDE	BION-051/12US 307799-2333	4706
58249	7590	05/01/2020	EXAMINER	
COOLEY LLP			ATKINSON, GARRETT K	
ATTN: IP Docketing Department			ART UNIT	
1299 Pennsylvania Avenue, NW			PAPER NUMBER	
Suite 700			3784	
Washington, DC 20004			NOTIFICATION DATE	
			DELIVERY MODE	
			05/01/2020	
			ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

zIPPatentDocketingMailboxUS@cooley.com

Response to Rule 312 Communication	Application No.	Applicant(s)	
	15/896,731	MCBRIDE et al.	
	Examiner	Art Unit	AIA (FITF) Status
	GARRETT K ATKINSON	3784	Yes
-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address -- 1. ☒ The amendment filed on <u>10 April 2020</u> under 37 CFR 1.312 has been considered, and has been: a) ☐ entered. b) ☒ entered as directed to matters of form not affecting the scope of the invention. c) ☐ disapproved because the amendment was filed after the payment of the issue fee. Any amendment filed after the date the issue fee is paid must be accompanied by a petition under 37 CFR 1.313(c)(1) and the required fee to withdraw the application from issue. d) ☐ disapproved. See explanation below. e) ☐ entered in part. See explanation below. _____			
/GARRETT K ATKINSON/ Primary Examiner, Art Unit 3784			

PRINTER RUSH

(PTO ASSISTANCE)

Application: 15896731Examiner: AtkinsonGAU: 3784

From:

Location: RTFMCreation Date: 04/13/2020Week Date: 1/13/2020

<u>DOC CODE</u>	<u>DOC DATE</u>	<u>MISCELLANEOUS</u>
☐ 1449	<u>04/10/2020</u>	☐ Continuing Data
☐ IDS		☐ Foreign Priority
☐ CLM		☐ Document Legibility
☐ IIFW/FWCLM		☐ Fees
☐ SRFW		☐ Petition (TC)
☐ DRW		☐ Other
☐ OATH		
☒ 312		
☐ SPEC		

[RUSH] Message:

Please respond to the 04/10/2020 a.na.

Thank you

[XRUSH] Response:

The a.na has been entered.

Thank you.

 /G.K.A/
 Initials: _____

Examiner: PUBS contact - James Leija, (703) 756-1197

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REV: AUG 16

Application No.: 15/896,731**Docket No.:** BION-051/12US 307799-2333

OK TO ENTER: /G.K.A/

In the Claims:

Set forth below in ascending order, with status identifiers, is a complete listing of all claims currently under examination. Changes to any amended claims are indicated by [[double brackets]], ~~strikethrough~~ and/or underlining. This listing also reflects any cancellation and/or addition of claims. No new matter is added by these amendments.

1. (Previously Presented) A method of using a body weight support system to provide body weight support during gait training, the body weight support system including a drive assembly configured to movably suspend the body weight support system from a support track and a tether configured to be coupled to an attachment device worn by a user to couple the user to the body weight support system, the method comprising:

defining a reference length of the tether when the attachment device is in an initial position;

defining a threshold length of the tether;

providing a first amount of body weight support during the gait training as the user moves relative to a surface and the length of the tether is less than the threshold length of the tether;

providing a second amount of body weight support during the gait training as the user moves relative to the surface and the length of the tether is greater than the threshold length of the tether, the drive assembly configured to move the body weight support system relative to the support track to maintain the body weight support system in a substantially overhead position relative to the user as the user moves relative to the surface; and

displaying data associated with the gait training on a display of an electronic device included in the body weight support system.

2. (Original) The method of claim 1, wherein the length of the tether is increased in response to an increase in force exerted by the user on the tether.

3. (Original) The method of claim 2, wherein the increase in the force exerted by the user on the tether is associated with the user falling during the gait training.

Application No.: 15/896,731**Docket No.:** BION-051/12US 307799-2333

4. (Original) The method of claim 1, wherein the surface relative to which the user moves is a stationary surface.
5. (Canceled)
6. (Original) The method of claim 1, wherein the surface relative to which the user moves is a moving surface included in a treadmill.
7. (Original) The method of claim 6, wherein displaying the data associated with the gait training on the display includes displaying data associated with an operating condition of the body weight support system and an operating condition of the treadmill.
8. (Previously Presented) A method of using a body weight support system to provide body weight support during gait training, the body weight support system including a tether configured to be coupled to an attachment device worn by a user to couple the user to the body weight support system, the method comprising:
 - defining a reference length of the tether when the attachment device is in an initial position;
 - defining a first criterion associated with a change in a length of the tether;
 - defining a second criterion associated with a change in a length of the tether;
 - defining an amount of the body weight support to provide in response to the user falling during the gait training;
 - maintaining the body weight support system in a substantially overhead position relative to the user as the user moves relative to a surface;
 - determining a fall has occurred based on the first criterion and the second criterion being satisfied; and
 - providing the amount of body weight support in response to the first criterion and the second criterion being satisfied.

Application No.: 15/896,731**Docket No.:** BION-051/12US 307799-2333

9. (Original) The method of claim 8, wherein the first criterion is a rate of change in the length of the tether.
10. (Original) The method of claim 8, wherein the second criterion is a duration during which the length of the tether is changed.
11. (Original) The method of claim 10, wherein the second criterion is a minimum duration.
12. (Currently Amended) The method of claim 8, wherein the first criterion is a rate of change in the length of the tether, the second criterion is a duration during which the length of the tether is changed, and the amount of ~~body~~body weight support provided in response to the first criterion and the second criterion being satisfied is a first amount of body weight support, the method further comprising:
 - providing a second amount of body weight support when at least one of the first criterion or the second criterion is not satisfied, the second amount of body weight support being less than the first amount of body weight support.
13. (Original) The method of claim 8, further comprising:
 - redefining the reference length of the tether in response to a change in the length of the tether that does not satisfy at least one of the first criterion or the second criterion.
14. (Original) A method of using a body weight support system to provide body weight support during gait training, the body weight support system including tether configured to be coupled to an attachment device worn by a user to couple the user to the body weight support system, the method comprising:
 - defining a reference length of the tether when the attachment device is in an initial position;
 - defining a threshold length of the tether, the threshold length of the tether being associated with the user falling during the gait training;
 - defining a threshold number of falls during the gait training;

Application No.: 15/896,731**Docket No.:** BION-051/12US 307799-2333

providing a predetermined amount of body weight support during the gait training as the user moves relative to a surface and the number of falls is less than the threshold number of falls;
increasing the predetermined amount of body weight support to be provided to the user during the gait training in response to the threshold number of falls being met; and
displaying data associated with the gait training on a display of an electronic device included in the body weight support system.

15. (Original) The method of claim 14, wherein the surface relative to which the user moves is a stationary surface.

16. (Original) The method of claim 15, wherein the body weight support system includes a drive assembly configured to movably suspend the body weight support system from a support track, the drive assembly configured to move the body weight support system relative to the support track in response to the user moving relative to the surface such that the body weight support system is maintained in a substantially overhead position relative to the user.

17. (Original) The method of claim 14, wherein the surface relative to which the user moves is a moving surface included in a treadmill.

18. (Original) The method of claim 17, wherein displaying the data associated with the gait training on the display includes displaying data associated with an operating condition of the body weight support system and an operating condition of the treadmill.

19. (Original) The method of claim 14, wherein providing the predetermined amount of body weight support during the gait training as the user moves relative to the surface is in response to a length of the tether exceeding the threshold length of the tether.

20. (Original) The method of claim 14, wherein the reference length of the tether is a first reference length of the tether, the method further comprising:

Application No.: 15/896,731

Docket No.: BION-051/12US 307799-2333

defining a second reference length of the tether in response to the threshold number of falls being met, the second reference length of the tether being shorter than the first reference length of the tether.

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Application	Document	Mailroom Date	Attorney Docket No.
15896731	N271	05/01/2020	BION-051/12US 307799-2333

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Notice of References Cited	Application/Control No. 15/896,731		Applicant(s)/Patent Under Reexamination MCBRIDE et al.	
	Examiner GARRETT K ATKINSON		Art Unit 3784	Page 2 of 3

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-9713439-B1	07-2017	Wu; Ming	A61B5/112	1/1
*	B	US-20060229167-A1	10-2006	Kram; Rodger	A63B21/00181	482/54
*	C	US-7998040-B2	08-2011	Kram; Rodger	A63B21/4015	482/124
*	D	US-20120018249-A1	01-2012	Mehr; Christian	A63B69/0064	182/5
*	E	US-20040143198-A1	07-2004	West, R. Gary	A61F5/0102	601/5
*	F	US-0229167-A	06-1880	~~Name not available~~ Morse	B60G11/02	267/39
*	G	US-0143198-A	09-1873	~~Name not available~~ Taylor	A41D1/14	2/211
*	H	US-0018249-A	09-1857	~~Name not available~~ Robertson	B41K3/08	101/110
*	I	US-7980856-B2	07-2011	Grabiner; Mark	A63B22/0292	434/258
*	J	US-20150320632-A1	11-2015	VALLERY; Heike	A61H3/008	482/69
*	K	US-9801775-B2	10-2017	Vallery; Heike	A61H3/008	1/1
*	L	US-20180055715-A1	03-2018	VALLERY; Heike	A61H3/008	1/1
*	M	US-20140206503-A1	07-2014	Stockmaster; James G.	A61H3/008	482/4

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
	O	Change(s) applied				
	P	to document,				
	Q	/S.B./				
	R	2/28/2020				
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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/896,731	06/02/2020	10668316	BION-051/12US 307799-2333	4706
58249	7590	05/13/2020		

COOLEY LLP
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ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
 (application filed on or after May 29, 2000)

The Patent Term Adjustment is 66 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site <http://pair.uspto.gov> for additional applicants):

Keith MCBRIDE, Ventura, CA;
 Bioness Inc., Valencia, CA;
 Arkady GLUKHOVSKY, Valencia, CA;
 Augustine SMITH, Santa Clarita, CA;

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Application	Document	Mailroom Date	Attorney Docket No.
15896731	ISSUE.NTF	05/13/2020	BION-051/12US 307799-2333

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---	---

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been
 filed in the U.S. District Court Eastern District of Virginia, Alexandria Division on the following
☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.);

DOCKET NO.	DATE FILED 6/15/2022	U.S. DISTRICT COURT Eastern District of Virginia, Alexandria Division
PLAINTIFF BIONESS INC.		DEFENDANT ARETECH, LLC
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 See Attachment A.		
2		
3		
4		
5		

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
4		
5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT		
CLERK	(BY) DEPUTY CLERK	DATE

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

**Attachment A to
Report on the Filing or Determination of an Action Regarding a Patent or Trademark**

Bioness Inc. v. Aretech, LLC
United States District Court, Eastern District of Virginia
Alexandria Division

Patent or Trademark No.	Date of Patent or Trademark	Holder of Patent or Trademark
9,682,000	June 20, 2017	Bioness Inc.
9,839,569	December 12, 2017	Bioness Inc.
9,855,177	January 2, 2018	Bioness Inc.
10,219,960	March 5, 2019	Bioness Inc.
10,463,563	November 5, 2019	Bioness Inc.
10,537,486	January 21, 2020	Bioness Inc.
10,668,316	June 2, 2020	Bioness Inc.
11,246,780	February 15, 2022	Bioness Inc.
11,253,416	February 22, 2022	Bioness Inc.
11,324,651	May 10, 2022	Bioness Inc.