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BIB DATA SHEET

CONFIRMATION NO. 6272

SERIAL NUMBER	FILING or 371(c) DATE RULE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
13/745,830	01/20/2013	005	3673	BION-051/00US 307799-2244

APPLICANTS

Bioness Inc., Valencia, CA;

INVENTORS

Arkady Glukhovsky, Valencia, CA;
Joel Behnke, Valencia, CA;
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Moshe Olim, San Diego, CA;
Perry Payne, Saugus, CA;
Kenneth A. Regas, Poway, CA;
William H. Schwiebert, Escondido, CA;
Daniel Scott Weinstein, San Diego, CA;

**** CONTINUING DATA ***************************

**** FOREIGN APPLICATIONS ***************************

**** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ****
02/13/2013

Foreign Priority claimed	❑ Yes ☑ No	❑ Met after Allowance	STATE OR COUNTRY	SHEETS DRAWINGS	TOTAL CLAIMS	INDEPENDENT CLAIMS
35 USC 119(a-d) conditions met	❑ Yes ❑ No					
Verified and Acknowledged	/ERIC J KURILLA/ Examiner's Signature	Initials	CA	34	21	3

ADDRESS

COOLEY LLP
ATTN: Patent Group
1299 Pennsylvania Avenue, NW
Suite 700
Washington, DC 20004
UNITED STATES

TITLE

METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM

FILING FEE RECEIVED		
1820	FEES: Authority has been given in Paper No._____ to charge/credit DEPOSIT ACCOUNT No._____ for following:	❑ All Fees ❑ 1.16 Fees (Filing) ❑ 1.17 Fees (Processing Ext. of time) ❑ 1.18 Fees (Issue) ❑ Other _____ ❑ Credit

BIB (Rev. 05/07).

Electronic Acknowledgement Receipt

EFS ID:	14746097
Application Number:	13745830
International Application Number:	
Confirmation Number:	6272
Title of Invention:	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM
First Named Inventor/Applicant Name:	Arkady Glukhovsky
Customer Number:	58249
Filer:	Erik Benton Milch/John Mills
Filer Authorized By:	Erik Benton Milch
Attorney Docket Number:	BION-051/00US 307799-2244
Receipt Date:	20-JAN-2013
Filing Date:	
Time Stamp:	17:04:07
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Application Data Sheet	aia0014.pdf	1442529 b293237e79eb34a97a8d3cc120a8f15bfec525fa	no	6

Warnings:	
Information:	

2		BION05100USSpec.pdf	293798 46bf69f7202df0f9c363c31e260a22305a920a72	yes	51
	Multipart Description/PDF files in .zip description				
	Document Description		**Start**	**End**	
	Specification		1	47	
	Claims		48	50	
	Abstract		51	51	
Warnings:					
Information:					
3	Drawings-only black and white line drawings	BION05100USFigs.pdf	3574761 0328b9436c2459b5844eea9ffacd4bf46a39e8cb	no	34
Warnings:					
Information:					
		Total Files Size (in bytes):	5311088		

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.

New Applications Under 35 U.S.C. 111
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.

National Stage of an International Application under 35 U.S.C. 371
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.

New International Application Filed with the USPTO as a Receiving Office
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.

Electronic Acknowledgement Receipt	
EFS ID:	15516424
Application Number:	13745830
International Application Number:	
Confirmation Number:	6272
Title of Invention:	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM
First Named Inventor/Applicant Name:	Arkady Glukhovsky
Customer Number:	58249
Filer:	Margaret Fischofer/Rebecca Phelan
Filer Authorized By:	Margaret Fischofer
Attorney Docket Number:	BION-051/00US 307799-2244
Receipt Date:	15-APR-2013
Filing Date:	20-JAN-2013
Time Stamp:	16:31:07
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$1820
RAM confirmation Number	3764
Deposit Account	501283
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees)

Charge any Additional Fees required under 37 C.F.R. Section 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	Application Data Sheet	BION-051_00US_ADS.pdf	1504417 b3b1d00a6fb797e5974875ef73b9be1d6c037085	no	9
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	38781 276352421e3a39d1a8f24411e34af7514422ea7b	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	1543198		

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.

New Applications Under 35 U.S.C. 111
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National Stage of an International Application under 35 U.S.C. 371
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.

New International Application Filed with the USPTO as a Receiving Office
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.

Electronic Patent Application Fee Transmittal

Application Number:	13745830
Filing Date:	20-Jan-2013
Title of Invention:	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM
First Named Inventor/Applicant Name:	Arkady Glukhovsky
Filer:	Margaret Fischofer/Rebecca Phelan
Attorney Docket Number:	BION-051/00US 307799-2244

Filed as Large Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Utility application filing	1011	1	280	280
Utility Search Fee	1111	1	600	600
Utility Examination Fee	1311	1	720	720
Pages:				
Claims:				
Claims in Excess of 20	1202	1	80	80
Miscellaneous-Filing:				
Late Filing Fee for Oath or Declaration	1051	1	140	140

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		**1820**

PTO/AIA/14 (08-12)
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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	BION-051/00US 307799-2244
	Application Number	
Title of Invention	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM	

The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.
This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.

Secrecy Order 37 CFR 5.2

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1 Remove

Legal Name

Prefix	**Given Name**	**Middle Name**	**Family Name**	**Suffix**
	Arkady		Glukhovsky	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Valencia	**State/Province**	CA	**Country of Residence** i	US

Mailing Address of Inventor:

Address 1	23716 Via Andorra		
Address 2			
City	Valencia	**State/Province**	CA
Postal Code	91355	**Country** i	US

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button. Add

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

☐ **An Address is being provided for the correspondence Information of this application.**

Customer Number	58249		
Email Address	zpatdcdocketing@cooley.com	Add Email	Remove Email

Application Information:

Title of the Invention	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM		
Attorney Docket Number	BION-051/00US 307799-2244	**Small Entity Status Claimed**	☐
Application Type	Nonprovisional		
Subject Matter	Utility		
Suggested Class (if any)		**Sub Class (if any)**	
Suggested Technology Center (if any)			
Total Number of Drawing Sheets (if any)	34	**Suggested Figure for Publication (if any)**	

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	BION-051/00US 307799-2244
	Application Number	
Title of Invention	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM	

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)
☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32).
Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Please Select One:	◉ Customer Number	○ US Patent Practitioner	○ Limited Recognition (37 CFR 11.9)
Customer Number	58249		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) or indicate National Stage entry from a PCT application. Providing this information in the application data sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.

Prior Application Status			Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)

Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button. Add

Foreign Priority Information:

This section allows for the applicant to claim benefit of foreign priority and to identify any prior foreign application for which priority is not claimed. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55(a).

Remove

Application Number	Country i	Filing Date (YYYY-MM-DD)	Priority Claimed
			◉ Yes ○ No

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button. Add

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	BION-051/00US 307799-2244
	Application Number	
Title of Invention	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM	

Authorization to Permit Access:

☒ Authorization to Permit Access to the Instant Application by the Participating Offices

If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the instant patent application is filed access to the instant patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the instant patent application is filed to have access to the instant patent application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the instant patent application with respect to: 1) the instant patent application-as-filed; 2) any foreign application to which the instant patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the instant patent application; and 3) any U.S. application-as-filed from which benefit is sought in the instant patent application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing this Authorization.

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Applicant 1 Remove

If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

Clear

◯ Assignee	◯ Legal Representative under 35 U.S.C. 117	◯ Joint Inventor
◯ Person to whom the inventor is obligated to assign.	◯ Person who shows sufficient proprietary interest	

If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor :

If the Applicant is an Organization check here. ☐

Prefix	**Given Name**	Middle Name	**Family Name**	Suffix

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

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	BION-051/00US 307799-2244
	Application Number	
Title of Invention	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM	

Mailing Address Information:			
Address 1			
Address 2			
City		**State/Province**	
Country i		Postal Code	
Phone Number		Fax Number	
Email Address			

Additional Applicant Data may be generated within this form by selecting the Add button. Add

Non-Applicant Assignee Information:

Providing assignment information in this section does not subsitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Assignee 1

Complete this section only if non-applicant assignee information is desired to be included on the patent application publication in accordance with 37 CFR 1.215(b). Do not include in this section an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest), as the patent application publication will include the name of the applicant(s).

Remove

If the Assignee is an Organization check here. ☐

Prefix	**Given Name**	Middle Name	**Family Name**	Suffix

Mailing Address Information:			
Address 1			
Address 2			
City		**State/Province**	
Country i		Postal Code	
Phone Number		Fax Number	
Email Address			

Additional Assignee Data may be generated within this form by selecting the Add button. Add

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	BION-051/00US 307799-2244
	Application Number	
Title of Invention	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM	

Signature:

Remove

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications					
Signature	/Erik B. Milch/			Date (YYYY-MM-DD)	2013-01-20
First Name	Erik	Last Name	Milch	Registration Number	42887
Additional Signature may be generated within this form by selecting the Add button. Add					

This collection of information is required by 37 CFR 1.76. 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 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet 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.**

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 the Freedom of Information Act requires disclosure of these records.

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 inspections 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.

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	BION-051/00US 307799-2244
	Application Number	
Title of Invention	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM	

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Secrecy Order 37 CFR 5.2

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Joel		Behnke	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Valencia	State/Province	CA	Country of Residence i	US

Mailing Address of Inventor:

Address 1	23038 Edenton Place		
Address 2			
City	Valencia	State/Province	CA
Postal Code	91354	Country i	US

Inventor 2 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Todd		Cushman	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Coto de Caza	State/Province	CA	Country of Residence i	US

Mailing Address of Inventor:

Address 1	6 San Miguel		
Address 2			
City	Coto de Caza	State/Province	CA
Postal Code	92679	Country i	US

Inventor 3 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Erol		Erturk	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

PTO/AIA/14 (03-13)
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	BION-051/00US 307799-2244
	Application Number	
Title of Invention	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM	

City	Cardiff	State/Province	CA	Country of Residence i	US

Mailing Address of Inventor:

Address 1	403 Sheffield Avenue		
Address 2			
City	Cardiff	State/Province	CA
Postal Code	92007	Country i	US

Remove

Inventor 4

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Arkady		Glukhovsky	

Residence Information (Select One) (•) US Residency ( ) Non US Residency ( ) Active US Military Service

City	Valencia	State/Province	CA	Country of Residence i	US

Mailing Address of Inventor:

Address 1	23716 Via Andorra		
Address 2			
City	Valencia	State/Province	CA
Postal Code	91355	Country i	US

Remove

Inventor 5

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Kelvin	J.	Hasseler	

Residence Information (Select One) (•) US Residency ( ) Non US Residency ( ) Active US Military Service

City	Murrieta	State/Province	CA	Country of Residence i	US

Mailing Address of Inventor:

Address 1	39815 Tinderbox Way		
Address 2			
City	Murrieta	State/Province	CA
Postal Code	92562	Country i	US

Remove

Inventor 6

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Keith		McBride	

Residence Information (Select One) (•) US Residency ( ) Non US Residency ( ) Active US Military Service

City	Ventura	State/Province	CA	Country of Residence i	US

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	BION-051/00US 307799-2244
	Application Number	
Title of Invention	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM	

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Title of Invention	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM	

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Application Information:

Title of the Invention	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM		
Attorney Docket Number	BION-051/00US 307799-2244	**Small Entity Status Claimed** ☐	
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	34	**Suggested Figure for Publication (if any)**	

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

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This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) or indicate National Stage entry from a PCT application. Providing this information in the application data sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.

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This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55(d). When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX) [i] the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(h)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

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☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.

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Title of Invention	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM	

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Applicant 1 Remove

If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

Clear

◯ Assignee	◯ Legal Representative under 35 U.S.C. 117	◯ Joint Inventor
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If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor :

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Signature	/Margaret Fischofer/			Date (YYYY-MM-DD)	2013-04-15
First Name	Margaret	Last Name	Fischofer	Registration Number	61689

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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.

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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.

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METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM

Background

[1001] The embodiments described herein relate to apparatus and methods for supporting the body weight of a patient. More particularly, the embodiments described herein relate to apparatus and methods for supporting the body weight of a patient during gait therapy.

[1002] Successfully delivering intensive yet safe gait therapy to individuals with significant walking deficits can present challenges to skilled therapists. In the acute stages of many neurological injuries such as stroke, spinal cord injury, traumatic brain injury, or the like individuals often exhibit highly unstable walking patterns and poor endurance, making it difficult to safely practice gait for both the patient and therapist. Because of this, rehabilitation centers often move over-ground gait training to a treadmill where body-weight support systems can help minimize falls while raising the intensity of the training.

[1003] Numerous studies have investigated the effectiveness of body-weight supported treadmill training and have found that this mode of gait training promotes gains in walking ability similar to or greater than conventional gait training. Unfortunately, there are few systems for transitioning patients from training on a treadmill to safe, weight-supported over-ground gait training. Furthermore, since a primary goal of most individuals with walking impairments is to walk in their homes and in their communities rather than on a treadmill, it is often desirable that therapeutic interventions targeting gait involve over-ground gait training (e.g., not on a treadmill).

[1004] Some known support systems involve training individuals with gait impairments over smooth, flat surfaces. In some systems, however, therapists may be significantly obstructed from interacting with the patient, particularly the lower legs of the patient. For patients that require partial assistance to stabilize their knees and/or hips or that need help to propel their legs, the systems present significant barriers between the patient and the therapist.

[1005] Some known gait support systems are configured to provide static unloading to a patient supported by the system. That is, under static unloading, the length of shoulder straps that support the patient are set to a fixed length such that the patient either bears substantially all of their weight when the straps are slack or substantially no weight when the straps are

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taught. Static unloading systems have been shown to result in abnormal ground reaction forces and altered muscle activation patterns in the lower extremities. In addition, static unloading systems may limit the vertical excursions of a patient that prevent certain forms of balance and postural therapy where a large range of motion is necessary. For example, in some known support systems, the extent of the vertical travel of the system is limited. As a result, some known systems may not be able to raise a patient from a wheelchair to a standing position, thereby restricting the use of the system to individuals who are not relegated to a wheelchair (e.g., those patients with minor to moderate gait impairments).

[1006] In some known static support systems, there may be a limitation on the amount of body-weight support. In such a system, the body-weight support cannot be modulated continuously, but rather is adjusted before the training session begins and remains substantially fixed at that level during training. Furthermore, the amount of unloading cannot be adjusted continuously since it requires the operator to manually adjust the system.

[1007] In other known systems, a patient may be supported by a passive trolley and rail system configured to support the patient while the patient physically drags the trolley along the overhead rail during gait therapy. While the trolley may have a relatively small mass, the patient may feel the presence of the mass. Accordingly, rather than being able to focus on balance, posture, and walking ability, the patient may have to compensate for the dynamics of the trolley. For example, on a smooth flat surface, if the subject stops abruptly, the trolley may continue to move forward and potentially destabilize the subject, thereby resulting in an abnormal compensatory gait strategy that could persist when the subject is removed from the device.

[1008] Some known over-ground gait support systems include a motorized trolley and rail system. In such known systems, the motorized trolley can be relatively bulky, thereby placing height restrictions on system. For example, in some known systems, there may be a maximum suitable height for effective support of a patient. In some known systems, a minimum ceiling height may be needed for the system to provide support for patients of varying height.

[1009] While the trolley is motorized and programmed to follow the subject's movement, the mechanics and overall system dynamics can result in significant delays in the response of the system such that the patient has the feeling that they are pulling a heavy, bulky trolley in order to move. Such system behavior may destabilize impaired patients during walking.

Aretech LLC - Exhibit 1002, Page 00024

Moreover, some known motorized systems include a large bundle of power cables and/or control cables to power and control the trolley. Such cable bundles present significant challenges in routing and management as well as reducing the travel of the trolley. For example, in some known systems, the cable bundle is arranged in a bellows configuration such that the cable bundle collapses as the trolley moves towards the power supply and expands as the trolley moves away from the power supply. In this manner, the travel of the trolley is limited by the space occupied by the collapsed cable bundle. In some instances, the bundle of cables can constitute a varying inertia which presents significant challenges in the performance of control systems and thus, reduces the efficacy of the overall motorized support system.

[1010] Thus, a need exists for improved apparatus and methods for supporting the body-weight of a patient during gate therapy.

Summary

[1011] Apparatus and methods for supporting the body weight of a patient during gait therapy are described herein. In some embodiments, a body weight support system includes a trolley, a powered conductor operatively coupled to a power supply, and a patient attachment mechanism. The trolley can include a drive system, a control system, and a patient support system. The drive system is movably coupled to a support rail. At least a portion of the control system is physically and electrically coupled to the power rail. The patient support mechanism is at least temporarily coupled to the patient attachment mechanism. The control system can control at least a portion of the patient support mechanism based at least in part on a force applied to the patient attachment mechanism.

Brief Description of the Drawings

[1012] FIG. 1 is a schematic illustration of a body weight support system according to an embodiment.

[1013] FIGS. 2 and 3 are perspective views of a body weight support system according to an embodiment.

[1014] FIGS. 4-7 are various perspective views of a trolley included in the body weight support system of FIG. 2.

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[1015] FIG. 8 is a top perspective view of a housing included in the trolley of FIG. 4.

[1016] FIG. 9 is an exploded view of the housing of FIG. 8.

[1017] FIG. 10 is an enlarged view of a portion of the trolley of FIG. 4 identified as region Z.

[1018] FIG. 11 is a bottom perspective view of an electronic system included in the trolley of FIG. 4.

[1019] FIG. 12 is a perspective view of a drive mechanism included in the trolley of FIG. 4.

[1020] FIGS. 13 and 14 are perspective views of a first drive assembly included in the drive mechanism of FIG. 12.

[1021] FIGS. 15 and 16 are exploded views of the first drive assembly of FIG. 13.

[1022] FIGS. 17-19 are perspective views of a first support member, a second support member, and a third support member, respectively, included in the first drive assembly of FIG. 13.

[1023] FIG. 20 is an exploded view of a drive wheel subassembly included in the first drive assembly of FIG. 13.

[1024] FIG. 21 is a perspective view of a secondary wheel subassembly included in the first drive assembly of FIG. 13.

[1025] FIG. 22 is a perspective view of a portion of the first drive assembly of FIG. 13, illustrating the secondary wheel subassembly of FIG. 21 coupled to the second support member of FIG. 18.

[1026] FIG. 23 is a perspective view of the first drive assembly of FIG. 13 in contact with a support track.

[1027] FIG. 24 is a perspective view of a second drive assembly included in the drive mechanism of FIG. 12.

[1028] FIG. 25 is an exploded view of the second drive assembly of FIG. 24.

Aretech LLC - Exhibit 1002, Page 00026

[1029] FIG. 26 is a perspective view of the second drive assembly of FIG. 24 in contact with the support track of FIG. 20.

[1030] FIG. 27 is a perspective view of a support mechanism and a base included in the housing of FIG. 8 both of which are included in the trolley of FIG. 4.

[1031] FIG. 28 is a perspective view of the support mechanism of FIG. 27.

[1032] FIG. 29 is a perspective view of a winch assembly included in the support mechanism of FIG. 27.

[1033] FIG. 30 is an exploded view of the winch assembly of FIG. 29.

[1034] FIG. 31 is an exploded view of a guide assembly included in the support mechanism of FIG. 27.

[1035] FIG. 32 is a perspective view the support mechanism of FIG. 27 shown without the winch assembly of FIG. 28.

[1036] FIG. 33 is an exploded view of a cam assembly included in the support mechanism of FIG. 27.

[1037] FIG. 34 is a perspective view of a patient attachment mechanism according to an embodiment.

[1038] FIG. 35 is a perspective view of a body weight support system according to an embodiment.

[1039] FIG. 36 is a cross sectional view of the body weight support system of FIG. 35 taken along the line X-X.

[1040] FIG. 37 is a schematic illustration of a support system according to an embodiment.

Detailed Description

[1041] In some embodiments, a body weight support system includes a trolley, a power rail operative coupled to a power supply, and a patient attachment mechanism. The trolley can include a drive system, a control system, and a patient support system. The drive system is movably coupled to a support rail. At least a portion of the control system is physically

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and electrically coupled to the power rail. The patient support mechanism is at least temporarily coupled to the patient attachment mechanism. The control system can control at least a portion of the patient support mechanism based at least in part on a force applied to the patient attachment mechanism.

[1042] In some embodiments, a body weight support system includes a closed loop tack, a powered conductor coupled to the closed loop track, an actively controlled trolley, and a patient support assembly. The actively controlled trolley is movably suspended from the closed loop track and is electrically coupled to the powered conductor. The patient support assembly is coupled to the trolley and is configured to dynamically support a body weight of a patient.

[1043] In some embodiments, a body weight support device includes a housing, a drive element, a wheel assembly, and a patient support assembly. At least a portion of the drive element and at least portion of the wheel assembly is disposed within the housing. The patient support assembly is coupled to the drive element and is configured to dynamically support a body weight of a patient.

[1044] As used in this specification, the singular forms "a," "an" and "the" include plural referents unless the context clearly dictates otherwise. Thus, for example, the term "a member" is intended to mean a single member or a combination of members, "a material" is intended to mean one or more materials, or a combination thereof.

[1045] As used herein, the terms "about" and "approximately" generally mean plus or minus 10% of the value stated. For example, about 0.5 would include 0.45 and 0.55, about 10 would include 9 to 11, about 10000 would include 900 to 11000.

[1046] As used herein, the term "set" can refer to multiple features or a singular feature with multiple parts. For example, when referring to set of walls, the set of walls can be considered as one wall with multiple portions, or the set of walls can be considered as multiple, distinct walls. Thus, a monolithically constructed item can include a set of walls. Such a set of walls may include multiple portions that are either continuous or discontinuous from each other. For example, a monolithically constructed wall can include a set of detents can be said to form a set of walls. A set of walls can also be fabricated from multiple items that are produced separately and are later joined together (e.g., via a weld, an adhesive, or any suitable method).

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[1047] As used herein, the term "parallel" generally describes a relationship between two geometric constructions (e.g., two lines, two planes, a line and a plane or the like) in which the two geometric constructions are substantially non-intersecting as they extend substantially to infinity. For example, as used herein, a line is said to be parallel to another line when the lines do not intersect as they extend to infinity. Similarly, when a planar surface (i.e., a two-dimensional surface) is said to be parallel to a line, every point along the line is spaced apart from the nearest portion of the surface by a substantially equal distance. Two geometric constructions are described herein as being "parallel" or "substantially parallel" to each other when they are nominally parallel to each other, such as for example, when they are parallel to each other within a tolerance. Such tolerances can include, for example, manufacturing tolerances, measurement tolerances or the like.

[1048] As used herein, the term "tension" is related to the internal forces (i.e., stress) within an object in response to an external force pulling the object in an axial direction. For example, an object with a mass being hung from a rope at one end and fixedly attached to a support at the other end exerts a force to place the rope in tension. The stress within an object in tension can be characterized in terms of the cross-sectional area of the object. For example, less stress is applied to an object having a cross-sectional area greater than another object having a smaller cross-sectional strength. The maximum stress exerted on an object in tension prior to plastic deformation (e.g., necking or the like) is characterized by the object's tensile strength. The tensile strength is an intensive property of (i.e., is intrinsic to) the constituent material. Thus, the maximum amount of stress of an object in tension can be increased or decreased by forming the object from a material with a greater tensile strength or lesser tensile strength, respectively.

[1049] As used herein, the term "kinematics" describes the motion of a point, object, or system of objects without considering a cause of the motion. For example, the kinematics of an object can describe a translational motion, a rotational motion, or a combination of both translational motion and rotational motion. When considering the kinematics of a system of objects, known mathematical equations can be used to describe to the motion of an object relative to a plane or set of planes and/or relative to one or more other objects included in the system of objects.

[1050] As used herein, the terms "feedback", "feedback system", and/or "feedback loop" relate to a system wherein past or present characteristics influence current or future actions. For example, a thermostat is said to be a feedback system wherein the state of the thermostat

Aretech LLC - Exhibit 1002, Page 00029

(e.g., in an "on" configuration or an "off" configuration) is dependent on a temperature being fed back to the thermostat. Feedback systems include a control scheme such as, for example, a proportional-integral-derivative (PID) controller. Expanding further, an output of some feedback systems can be described mathematically by the sum of a proportional term, an integral term, and a derivative term. PID controllers are often implemented in one or more electronic devices. In such controllers, the proportional term, the integral term, and/or the derivative term can be actively "tuned" to alter characteristics of the feedback system.

[1051] Electronic devices often implement feedback systems to actively control the kinematics of mechanical systems in order to achieve and/or maintain a desired system state. For example, a feedback system can be implemented to control a force within a system (e.g., a mass-spring system or the like) by changing the kinematics and/or the position of one or more components relative to any other components included in the system. Expanding further, the feedback system can determine current and/or past states (e.g., position, velocity, acceleration, force, torque, tension, electrical power, etc.) of one or more components included in the mechanical system and return the past and/or current state values to, for example, a PID control scheme. In some instances, an electronic device can implement any suitable numerical method or any combination thereof (e.g., Newton's method, Gaussian elimination, Euler's method, LU decomposition, etc.). Thus, based on the past and/or current state of the one or more components, the mechanical system can be actively changed to achieve a desired system state.

[1052] FIG. 1 is a schematic illustration of a body weight support system 1000 according to an embodiment. The body weight support system 1000 (also referred to herein as "support system") includes at least a trolley 1100, a patient attachment mechanism 1800 (also referred to herein as "attachment mechanism"), a power supply 1610, a powered conductor or rail 1620, and a control 1900. The support system 1000 can be used, for example, in intensive gait therapy to support patients with walking deficiencies brought on by neurological injuries such as stroke, spinal cord injury, traumatic brain injury, or the like. In such instances, the support system 1000 can be used to support at least a portion of the patient's body weight to facilitate the gait therapy. In other instances, the support system 1000 can be used to simulate, for example, low gravity scenarios for the training of astronauts or the like. In some embodiments, the support system 1000 can be used to support a patient over a treadmill or stairs instead of or in addition to supporting a patient over and across level ground.

Aretech LLC - Exhibit 1002, Page 00030

[1053] The trolley 1100 included in the support system 1000 can be any suitable shape, size, or configuration and can include one or more systems, mechanisms, assemblies, or subassemblies (not shown in FIG. 1) that can perform any suitable function associated with, for example, supporting at least a portion of the body weight of a patient. The trolley 1100 can include at least a drive system 1300, a patient support mechanism 1500, and an electronic system 1700. In some embodiments, the drive system 1300 can be movably coupled to a support track (not shown in FIG. 1) and configured to move (e.g., slide, roll, or otherwise advance) along a length of the support track. The support track can be any suitable shape, size, or configuration. For example, in some embodiments, the support track can be substantially linear or curvilinear. In other embodiments, the support track can be a closed loop such as, for example, circular, oval, oblong, rectangular (e.g., with or without rounded corners), or any other suitable shape. In some embodiments, the support track can be a beam (e.g., an I-beam or the like) included in a roof or ceiling structure from which at least a portion of the trolley 1100 can "hang" (e.g., at least a portion of the trolley 1100 can extend away from the beam). In other embodiments, at least one end portion of the support track can be coupled to a vertical wall or the like. In still other embodiments, the support track can be included in a free-standing structure such as, for example, a gantry or an A-frame.

[1054] The drive system 1300 of the trolley 1100 can include one or more wheels configured to roll along a surface of the support track such that the weight of the trolley 1100 and a portion of the weight of a patient utilizing the support system 1000 (e.g., the patient is temporarily coupled to the trolley 1100 via the patient attachment mechanism 1800, as described in further detail herein) are supported by the support track. Similarly stated, one or more wheels of the drive system 1300 can be disposed adjacent to and on top of a horizontal surface of the support track; thus, the trolley 1100 can be "hung" from or suspended from the support track. In other embodiments, the surface from which the trolley 1100 is hung need not be horizontal. For example, at least a portion of the support track can define a decline (and/or an incline) wherein a first end portion of the support track is disposed at a first height and a second end portion of the support track is disposed at a second height, different from the first height. In such embodiments, the trolley 1100 can be hung from a surface of the support track that is parallel to a longitudinal centerline (not shown) of the trolley 1100. In such embodiments, the trolley can be used to support a patient moving across an inclined/declined surface, up or down stairs, etc.

[1055] In some embodiments, the trolley 1100 can have or define a relatively small profile (e.g., height) such that the space between a surface of the trolley 1100 and a portion of

Aretech LLC - Exhibit 1002, Page 00031

the patient can be sufficiently large to allow the patient to move between a seated position to a standing position such as, for example, when a patient rises out of a wheelchair. Furthermore, with the trolley 1100 being hung from the support track, the weight of the trolley 1100 and the weight of the patient utilizing the support system can increase the friction (e.g., traction) between the one or more wheels of the drive system and the surface of the support track from which the trolley 1100 is hung. Thus, the one or more wheels of the drive system 1300 can roll along the surface of the support track without substantially slipping.

[1056] In some embodiments, the trolley 1100 can be motorized. For example, in some embodiments, the trolley 1100 can include one or more motors configured to power (e.g., drive, rotate, spin, engage, activate, etc.) the drive system 1300. In some embodiments, the motor(s) can be configured to rotate the wheels of the drive system 1300 at any suitable rate and/or any suitable direction (e.g., forward or reverse) such that the trolley 1100 can pace a patient utilizing the support system 1000, as described in further detail herein. In some embodiments, the electronic system 1700 and/or the control 1900 can be operatively coupled (e.g., electrically connected) to the one or more motors such that the electronic system 1700 and/or the control 1900 can send an electronic signal associated with operating the motor(s). In some embodiments, the motor(s) can include a clutch, a brake, or the like configured to substantially lock the motor(s) in response to a power failure or the like. Similarly stated, the motor(s) can be placed in a locked configuration to limit movement of the trolley 1100 (e.g., limit movement of the drive system 1300 and/or the patient support mechanism 1500) in response to a power failure (e.g., a partial power failure and/or a total power failure).

[1057] The patient support mechanism 1500 (also referred to herein as "support mechanism") can be any suitable configuration and can be at least temporarily coupled to the attachment mechanism 1800. For example, in some embodiments, the support mechanism 1500 can include a tether that can be temporarily coupled to a coupling portion of the attachment mechanism 1800. Moreover, the attachment mechanism 1800 can further include a patient coupling portion (not shown in FIG. 1) configured to receive a portion of a harness or the like worn by or coupled to the patient. Thus, the attachment mechanism 1800 and the support mechanism 1500 can support a portion of the body weight of a patient and temporarily couple the patient to the trolley 1100.

[1058] In some embodiments, an end portion of the tether can be coupled to, for example, a winch. In such embodiments, the winch can include a motor that can rotate a drum to coil

Aretech LLC - Exhibit 1002, Page 00032

or uncoil the tether. Similarly stated, the tether can be wrapped around the drum and the motor can rotate the drum in a first direction to wrap more of the tether around the drum and can rotate the drum in a second direction, opposite the first direction, to unwrap more of the tether from around the drum. In some embodiments, the support mechanism 1500 can include one or more pulleys that can engage the tether such that the support mechanism 1500 gains a mechanical advantage. Similarly stated, the pulleys can be arranged such that the force exerted by the winch to coil or uncoil the tether around the drum while a patient is coupled to the attachment mechanism 1800 is reduced.

[1059] The horizontal drive system/motor that is configured to allow for movement of the trolley along the track, and the vertical drive system configured to move to control the tether can be simultaneously controlled and operated or or not. For example, when a patient is walking over a treadmill, there is little or no horizontal movement, but the vertical (weight bearing) drive system is operational to compensate for the changes during the gait, falls, etc.

[1060] In some embodiments, the pulley system can include at least one pulley that is configured to move (e.g., pivot, translate, swing, or the like). For example, the pulley can be included in or coupled to a cam mechanism (not shown) that is configured to define a range of motion of the pulley. In such embodiments, the movement of the at least one pulley can coincide and/or be caused by a force exerted on the attachment mechanism 1800. For example, in some instances, the patient can move relative to the trolley 1100 such that the force exerted on the tether by the weight of the patient is changed (e.g., increased or decreased). In such instances, the pulley can be moved according to the change in the force such that the tension within the tether is substantially unchanged. Moreover, with the pulley included in or coupled to the cam mechanism, the movement of the pulley can move the cam through a predetermined range of motion. In some embodiments, the electronic system 1700 can include a sensor or encoder operatively coupled to the pulley and/or the cam that is configured to determine the amount of movement of the pulley and/or the cam. In this manner, the electronic system 1700 can send a signal to the motor included in the winch associated with coiling or uncoiling the tether around the drum in accordance with the movement of the pulley. For example, the pulley can be moved in a first direction in response to an increase in force exerted on the tether and the electronic system 1700 can send a signal to the motor of the winch associated with rotating the drum to uncoil a portion of the tether from the drum. Conversely, the pulley can be moved in a second direction, opposite the first direction, in response to a decrease in force exerted on the tether and the electronic system 1700 can send a signal to the motor of the winch associated with rotating the drum to

Aretech LLC - Exhibit 1002, Page 00033

coil a portion of the tether about the drum. Thus, the support mechanism 1500 can be configured to exert a reaction force in response to the force exerted by the patient such that the portion of the body weight supported by the support system 1000 remains substantially unchanged. Moreover, by actively supporting the portion of the body weight of the patient, the support system 1000 can limit the likelihood and/or the magnitude of a fall of the patient supported by the support system 1000. Similarly stated, the support mechanism 1500 and the electronic system 1700 can respond to a change in force exerted on the tether in a relatively short amount of time (e.g., much less than a second) to actively limit the magnitude of the fall of the patient.

[1061] As described above, the electronic system 1700 included in the trolley 1100 can is configured to control at least a portion of the trolley 1100. The electronic system 1700 includes with at least a processor, a memory. The memory can be, for example, a random access memory (RAM), a memory buffer, a hard drive, a read-only memory (ROM), an erasable programmable read-only memory (EPROM), and/or the like. In some embodiments, the memory stores instructions to cause the processor to execute modules, processes, and/or functions associated with controlling one or more mechanical and/or electrical systems included in the patient support system, as described above. In some embdiments, control signals are delivered through the powered rail using, for example, a broadband over power-line (BOP) configuration.

[1062] The processor of the electronic device can be any suitable processing device configured to run or execute a set of instructions or code. For example, the processor can be a general purpose processor (GPU), a central processing unit (CPU), an accelerated processing unit (APU), and/or the like. The processor can be configured to run or execute a set of instructions or code stored in the memory associated with controlling one or more mechanical and/or electrical systems included in a patient support system. For example, the processor can run or execute a set of instructions or code associated with controlling one or more motors, sensors, communication devices, encoders, or the like, as described above. More specifically, the processor can execute a set of instructions in response to receiving a signal from one or more sensors and/or encoders associated with a portion of the drive system 1300 and/or the support mechanism 1500. Similarly stated, the processor can be configured to execute a set of instructions associated with a feedback loop (e.g., based on a proportional-integral-derivative (PID) control method) wherein the electronic system 1700 can control the subsequent action of the drive system 1300 and/or the support system 1500 based at least in part on current and/or previous data (e.g., position, velocity, force, acceleration, angle of the

Aretech LLC - Exhibit 1002, Page 00034

tether, or the like) received from the drive system 1300 and/or the support system 1500, as described in further detail herein.

[1063] In some embodiments, the electronic system 1700 can include a communication device (not shown in FIG. 1) that can be in communication with the control 1900. For example, in some embodiments, the communication device can include one or more network interface devices (e.g., a network interface card). The communication device can be configured to transmit data over a wired and/or wireless network (not shown in FIG. 1) associated with sending data to and/or receiving data from the control 1900. The control 1900 can be any suitable device or module (e.g., hardware module or software module stored in the memory and executed in the process). For example, in some embodiments, the control 1900 can be an electronic device that includes at least a processor and a memory (not shown in FIG. 1) and is configured to run, for example, a personal computer application, a mobile application, a web page, and/or the like. In this manner, a user can engage the control 1900 to establish a set of system parameters associated with the support system 1000, as described in further detail herein. In some embodiments the control 1900 can be implemented as a handheld controller.

[1064] In some embodiments, control of the trolley 1100 can be accomplished using one or more controllers. In embodiments in which multiple controllers are utilized (e.g., a personal computer control and a handheld control), only one controller can be used at a time. In other embodiments, one of the controllers (e.g., the handheld controller) can override the personal computer controller. In other embodiments, a user can designate which controller is utilized by actuating the relevant controller. In other words, the user can either take control using a controller or can pass control to the other controller by actuating the controller.

[1065] In some embodiments, the patient support system 1000 is configured to improve gait and stability rehabilitation training by adding visual and audio feedback to a gait and stability assistance device. The trolley 1100 coordinates the feedback with heuristic patient data from past training sessions, and stores the data for each therapy/training

[1066] As shown in FIG. 1, the trolley 1100 is operatively coupled to the power rail 1620. The power rail 1620 is further coupled to the power source 1610 that is configured to provide a flow of electrical current (e.g., electrical power) to the power rail 1620. More specifically, the power rail 1620 can include any suitable transformer, converter, conditioner, capacitor, resistor, insulator, and/or the like (not shown in FIG. 1) such that the power rail 1620 can

Aretech LLC - Exhibit 1002, Page 00035

receive the flow of electrical current from the power source 1610 and transfer at least a portion of the flow of electrical current to the trolley 1100. The power rail 1620 can include one or more electrical conductors to deliver, for example, single or multiphase electrical power to one or more trolleys 1100. For example, in some embodiments, the power rail 1620 is a substantially tubular rail configured to receive a conductive portion of the electronic system 1700 of the trolley 1100. More specifically, the power rail 1620 can include one or more conductive surfaces disposed within an inner portion of the tubular rail along which a conductive member of the electronic system 1700 can move (e.g., slide, roll, or otherwise advance). In this manner, the power rail 1620 can transmit a flow of electrical current from the power source 1610 to the electronic system 1700 of the trolley 1100, as described in further detail herein. The power rail 1620 can be any suitable shape, size, or configuration. For example, the power rail 1620 can extend in a similar shape as the support track (not shown in FIG. 1) and can be arranged such that the power rail 1620 is substantially parallel to the support track. In this manner, the trolley 1100 can advance along a length of the support track while remaining in electrical contact with the power rail 1620. Furthermore, the arrangement of the power rail 1620 and the trolley 1100 is such that movement of the trolley 1100 along the length of the support track is not hindered or limited by a bundle of cables, as described above with reference to known support systems.

[1067] Moreover, the control 1900 can also be operatively coupled to the power supply 1610 and can be configured to control the amount of power delivered to the power rail 1620. For example, the control 1900 can be configured to begin a flow of electrical current from the power supply 1610 to the power rail 1620 to turn on or power up the support system 1000. Conversely, the control 1900 can be configured to stop a flow of electrical current from the power supply 1610 to the power rail 1620 to turn off or power down the support system 1000.

[1068] While the control 1900 is shown in FIG. 1 as being independent from and operatively coupled to the trolley 1100, in some embodiments, the control 1900 can be included in the electronic system 1700 of the trolley 1100. For example, in some embodiments, the control 1900 can be a hardware module and/or a software module that can be executed by the processor of the electronic system 1700. In such embodiments, the electronic system 1700 can include a user interface (e.g., a touch screen and/or one or more dials, buttons, switches, toggles, or the like). Thus, a user (e.g., a physical therapist, a doctor, a nurse, a technician, etc.) can engage the user interface associated with the control 1900 to establish a set of system parameters for the support system 1000.

Aretech LLC - Exhibit 1002, Page 00036

[1069] Although not shown in FIG. 1, in some embodiments, more than one trolley 1100 can be coupled to the same support track. In such embodiments, the trolleys 1100 hung from the support track can include, for example, sensors (e.g., ultrasonic proximity sensors and/or the like) that can send a signal to the electronic system 1700 associated with the proximity of one or more trolleys 1100 relative to a specific trolley 1100. In this manner, the electronic system 1700 of the trolleys 1100 can control, for example, a motor included in the drive system 1300 to prevent collision of the trolleys 1100. Thus, the support system 1000 can be used to support more than one patient (e.g., a number of patients corresponding to a number of trolleys 1100 disposed about the support track) while keeping the patients at a desired distance from one another.

[1070] In some embodiments, the support system is configured to provide feedback to a patient during use. In some embodiments, a laser or culminated light source is coupled to the trolley 1100 to create a light path for a patient to follow during a session. The light path allows the patient to look ahead or look at their feet while attempting to train their brain to properly control the leg/foot/hip motion. In some embodiments, a second light source is configured to illuminate a "target" location at which the patient can aim to plant their foot in a proper location. In some embodiments, the size of the target can be varied depending upon the dexterity of the user. In other words, for a user with greater muscle control, the target can be smaller. The light path and target location can be modified using a user interface as described in greater detail herein.

[1071] In some embodiments, audible feedback is provided to the patient when the patient's gate is incorrect. In some embodiments, audible feedback can be provided when the patient begins to fall. Different audible tones can be provided for different issues/purposes.

[1072] In some embodiments, a CCD camera interface is configured for video monitoring for future analysis and can be correlated to sensed rope position, speed, tension, etc. In some embodiments, monitors can be coupled to a patient's body to monitor muscle usage (e.g., leg muscles, torso muscles, etc.). Such information can be wirelessly transmitted to the electronic system 1700 and coordinated in the feedback provided to the patient during and after a therapy/rehabilitation session. Said another way, all of the data collected by the various sensors, cameras, etc. can be coordinated to provided dynamic, real-time feedback and/or post-session feedback.

Aretech LLC - Exhibit 1002, Page 00037

[1073] Although described above as being coupled to a power rail 1620, in some embodiments, a trolley can be battery powered. In such embodiments, the trolley can include a battery system that is suitable for providing the trolley with a flow of electrical current. The battery system included in such embodiments can be rechargeable. For example, in some embodiments, the trolley and more specifically the battery system can be temporarily coupled the power source 1610 to charge the battery system. In other embodiments, the battery system can be at least temporarily coupled to the power rail 1620 to recharge the battery system. In some embodiments the charging station(s) can be located in certain location(s) on the track. The trolley(s) can automatically dock to the charging stations according to a certain algorithm. For example, the trolley may travel to and dock to the charging station when the battery level is below certain level or during the break periods (for example when the system is not in use for certain time, at night, or at pre-determined times).

[1074] FIGS. 2-33 illustrate a body weight support system 2000 according to an embodiment. The body weight support system 2000 (also referred to herein as "support system") can be used to support a portion of a patient's body weight, for example, during gait therapy or the like. FIGS. 2 and 3 are perspective views of the support system 2000. The support system 2000 includes a trolley 2100, a power system 2600, and a patient attachment mechanism 2800 (see e.g., FIG. 34). As shown in FIGS. 2 and 3, the trolley 2100 is movably coupled to a support track 2050 that is configured to support the weight of the trolley 2100 and the weight of the patient utilizing the support system 2000. Although the support track 2050 is shown as having an I-shape, the support track 2050 can be any suitable shape. Furthermore, while the support track 2050 is shown as being substantially linear, the support track 2050 can extend in a curvilinear direction. In other embodiments, the support track 2050 can be arranged in a closed loop such as, for example, circular, oval, oblong, square, or the like. As described in further detail herein, the power system 2600 can include a power rail 2620 that extends substantially parallel to the support track 2050 and is at least electrically coupled to the trolley 2100 to transfer a flow of electrical current from a power source (not shown in FIGS. 2-32) to the trolley 2100.

[1075] FIGS. 4-7 are perspective views of the trolley 2100. The trolley 2100 can be any suitable shape, size, or configuration. For example, the trolley 2100 can suspended from the support track 2050 (as described in further detail herein) and can have or define a relatively small profile (e.g., height) such that the space between the trolley 2100 and a patient can be maximized. In this manner, the support system 2000 can be used to support patients of varying heights as well as supporting a patient rising from a sitting position to a standing

Aretech LLC - Exhibit 1002, Page 00038

position as is common in assisting patient at least partially relegated to a wheelchair. The trolley 2100 includes a housing 2200 (see e.g., FIGS. 8 and 9), an electronic system 2700 (see e.g., FIGS. 10 and 11), a drive system 2300 (see e.g., FIGS. 12-26), and a patient support mechanism 2500 (see e.g., FIGS. 27-33).

[1076] As shown in FIGS. 8 and 9 the housing 2200 includes a base 2210, a first side member 2230, a second side member 2240, a third side member 2250, and a cover 2260. The housing 2200 is configured to enclose and/or cover at least a portion of the electronic system 2700, as described in further detail herein. As shown in FIG. 9, the base 2210 has a first side 2211 and a second side 2212. The base 2210 defines a set of drive mechanism openings 2213, a fan opening 2214, a guide mechanism opening 2215, a bias mechanism opening 2217, a guide member opening 2218, and a cam pulley opening 2219, a cam pivot opening 2220. As described in further detail herein, the drive mechanism openings 2213 receive at least a portion of a first drive assembly 2310 included in the drive mechanism 2300 such that a set of wheels included therein can rotate without contacting the base 2210. The fan opening 2214 is receives a portion of a fan 2740 included in the electronic system 2700. More specifically, a portion of the fan 2740 can extend through the opening such that the fan can remove heat from within the housing 2200 produced by the electronic system 2700. The guide mechanism opening 2215 receives a portion of a guide mechanism 2540 included in the patient support mechanism 2500 (also referred to herein as "support mechanism"). More specifically, the base 2210 includes a set of mounting tabs 2216 configured to extend from a surface of the base 2210 that defines the guide mechanism opening 2215. In this manner, the guide mechanism 2540 can be coupled to the mounting tabs 2216. The bias mechanism opening 2217, the guide member opening 2218, the cam pulley opening 2219, and the cam pivot opening 2220 can each movably receive a portion of a cam mechanism 2570 included in the support mechanism 2500, as described in further detail herein.

[1077] The first side member 2230 has a first side 2231 and a second side 2232. The second side 2232 defines a slot 2233 that receives a portion of the base 2210 to couple the base 2210 thereto. The first side member 2230 also includes a mounting portion 2235 that is coupled to a portion of a collector 2770 included in the electronic system 2700, as described in further detail herein. The second side member 2240 has a first side 2241 and a second side 2242. The second side 2242 defines a slot 2243 that receives a portion of the base 2210 to couple the base 2210 thereto. The second side 2242 also includes a recessed portion 2244 that is coupled to a portion of a winch assembly 2510 included in the support mechanism 2500. The third side member 2250 is coupled to the first side member 2230, the second side

Aretech LLC - Exhibit 1002, Page 00039

member 2240, and the base 2210 and defines a light opening 2251 that receives an indicator light and a power outlet opening that receives a power outlet module.

[1078] The cover 2260 is disposed adjacent to the second side 2212 of the base 2210. More specifically, the cover 2260 can be removably coupled to the second side 2212 of the base 2210 such that the portion of the electronic system 2700 enclosed therein can be accessed. The cover 2260 has a first end portion 2261 and a second end portion 2262. The first end portion 2261 is open-ended and defines a notch 2265 configured to receive a portion of the collector 2770, as described in further detail herein. The second end portion 2262 of the cover 2260 is substantially enclosed and is configured to include a recessed region 2264. In this manner, a portion of the support mechanism 2500 can extend into and/or through the recessed region 2264 to couple to the patient attachment mechanism 2800, as described in further detail herein. The cover 2260 also defines a set of vents 2263 that can be arranged to provide a flow of air into the area enclosed by the cover 2260 such that at least a portion of the electronic system 2700 disposed therein can be cooled.

[1079] FIGS. 10 and 11 illustrate the electronic system 2700 of the trolley 2100. The electronic system 2700 includes a set of electronic devices that are collectively operated to control at least a portion of the trolley 2100. As described above, the electronic system 2700 includes the collector 2770 that is coupled to a portion of the housing 2200 and that is placed in physical and/or electrical contact with the power rail 2620. The collector 2770 can be any suitable shape, size, or configuration and can be formed from any suitable conductive material, such as, for example, iron, steel, or the like. In this manner, the collector 2770 can receive a flow of electrical current from the power rail 2620. For example, as shown in FIG. 10, the power rail 2620 is a substantially hollow tube that houses or substantially encloses one or more conductive portions 2621 (e.g., individual conductors or surfaces) that are electrically coupled to a power source (not shown). In this manner, the collector 2770 can be disposed within the hollow tube of the power rail 2620 such that a conductive portion 2771 (e.g., individual conductors, a conductive surface, or the like) of the collector 2770 is placed in electrical communication with the one or more conductive portions 2621 of the power rail 2620. Thus, the collector 2770 receives a flow of current from the power source and transferred by the power rail 2620. Moreover, the collector 2770 can be disposed within the power rail 2620 such that a coupling portion 2772 of the collector 2770 extends through a slot 2622 defined by the power rail 2620 to be coupled to the mounting portion 2235 of the housing 2200. The coupling portion 2772 can further be coupled to a power module (not

Aretech LLC - Exhibit 1002, Page 00040

shown) of the trolley 2100. Thus, the trolley 2100 receives power from the power source via the power rail 2620.

[1080] While not shown in FIGS. 10 and 11, the electronic system 2700 includes at least a processor, a memory, and a communication device. The memory can be, for example, a random access memory (RAM), a memory buffer, a hard drive, a read-only memory (ROM), an erasable programmable read-only memory (EPROM), and/or the like. In some embodiments, the memory stores instructions to cause the processor to execute modules, processes, and/or functions associated with controlling one or more mechanical and/or electrical systems included in the patient support system 2000. For example, the memory can store instructions, information, and/or data associated with a proportion-integral-derivative (PID) control system. In some embodiments, the PID control system can be included in, for example, a software package. In some embodiments, the PID control can be a set of user controlled instructions executed by the processor that allow the user to "tune" the PID control, as described in further detail herein.

[1081] The processor of the electronic device can be any suitable processing device configured to run or execute a set of instructions or code. For example, the processor can be a general purpose processor (GPU), a central processing unit (CPU), an accelerated processing unit (APU), and/or the like. The processor can be configured to run or execute a set of instructions or code stored in the memory associated with controlling one or more mechanical and/or electrical systems included in a patient support system. For example, the processor can run or execute a set of instructions or code associated with the PID control stored in the memory and further associated with controlling with a portion of the drive system 2300 and/or the patient support mechanism 2500. More specifically, the processor can execute a set of instructions in response to receiving a signal from one or more sensors and/or encoders (shown and described below) that can control one or more subsequent actions of the drive system 2300 and/or the support mechanism 2500. Similarly stated, the processor can execute a set of instructions associated with a feedback loop that includes one or more sensors or encoders that send a signal that is at least partially associated with current and/or previous data (e.g., position, velocity, force, acceleration, or the like) received from the drive system 2300 and/or the support mechanism 2500, as described in further detail herein.

[1082] The communication device can be, for example, one or more network interface devices (e.g., network cards) configured to communicate with an electronic device over a

Aretech LLC - Exhibit 1002, Page 00041

wired or wireless network. For example, in some embodiments, a user can manipulate a remote control device that sends one or more signals to and/or receives one or more signals from the electronic system 2700 associated with the operation of the trolley 2100. The remote control can be any suitable device or module (e.g., hardware module or software module stored in the memory and executed in the process). For example, in some embodiments, the remote control can be an electronic device that includes at least a processor and a memory and that runs, for example, a personal computer application, a mobile application, a web page, and/or the like. In this manner, a user can engage the remote control to establish a set of system parameters associated with the support system 2000 such as, for example, the desired amount of body weight supported by the support system 2000.

[1083] As shown in FIG. 12, the drive system 2300 includes a first drive assembly 2310 and a second drive assembly 2400. The drive system 2300 is coupled to the first side 2211 of the base 2210 (see e.g., FIGS. 2 and 3) and arranged such that the first drive assembly 2310 and the second drive assembly 2400 are aligned (e.g., coaxial). In this manner, the first drive assembly 2310 and the second drive assembly 2400 can receive a portion of the support track 2050, as described in further detail herein.

[1084] FIGS. 13-23 illustrate the first drive assembly 2310. The first drive assembly 2310 includes a motor 2311, a support structure 2315, a set of guide wheel assemblies 2360, a set of drive wheel assemblies 2370, and a set of secondary wheel assemblies 2390. The motor 2311 is coupled to a side member 2320 of the support structure 2315 and is in electrical communication with a portion of the electronic system 2700. The motor 2311 includes an output shaft 2312 (see e.g., FIGS. 15 and 16) that engages a portion of one of the drive wheel assemblies 2370 to rotate a drive wheel 2385 included therein. More specifically, the motor 2311 receives an activation signal (e.g., a flow of electrical current) from the electronic system 2700 to cause the motor 2311 to rotate the output shaft 2312 which, in turn, rotates the drive wheel 2385. As shown in FIGS. 13 and 14, at least a portion of the first drive assembly 2310 is substantially symmetrical about a longitudinal plane (not shown) defined by the first drive assembly 2310. In this manner, each side of the first drive assembly 2310 includes similar components, thereby increasing versatility and decreasing manufacturing costs. For example, while the first drive assembly 2310 is shown including two side members 2320 with the motor 2311 being coupled to a particular side member 2320, in other embodiments, the motor 2311 can be coupled to the other side member 2320.

Aretech LLC - Exhibit 1002, Page 00042

[1085] The support structure 2315 includes two side members 2320, a base 2340, two leading support members 2350, two trailing support members 2354, and two transverse support members 2358. As shown in FIGS. 13-16, the side members 2320 are the same (e.g., due to the symmetry of the first drive assembly 2310). The side members 2320 each define a bearing opening 2321, a notch 2322, and a set of slots 2325. The bearing opening 2321 of each side member 2320 receives a drive bearing 2376 (FIG. 20) included in the drive wheel assembly 2370. More specifically, the drive bearing 2376 can be disposed within the bearing opening 2321 such that an outer surface of the drive bearing 2376 forms a friction fit with a surface of the side member 2320 that defines the bearing opening 2321. Similarly stated, the drive bearing 2376 and the surface of the side 2320 defining the bearing opening 2321 form a press fit to retain the drive bearing 2376 within the bearing opening 2321.

[1086] The notch 2322 defined by each of the side members 2320 receives a spring rod 2323 and a spring 2324. The spring 2324 is disposed about the spring rod 2323 such that the spring rod 2323 substantially limits the motion of the spring 2324. More specifically, the spring rod 2323 is configured to allow the spring 2324 to move in an axial direction (e.g., compress and/or expand) while substantially limiting movement of the spring 2324 in a transverse direction. As described in further detail herein, the spring rod 2323 and the spring 2324 extend from a surface of the notch 2322 to engage a spring protrusion 2344 of the base 2340. The set of slots 2325 is configured such that each slot 2325 receives mounting hardware (e.g., a mechanical fastener, a pin, a dowel, etc.) configured to movably couple the side members 2320 to the base 2340, as described in further detail herein.

[1087] As described above, the base 2340 is movably coupled to the side members 2320. The base 2340 includes a set of side walls 2342, and an axle portion 2346. The axle portion 2346 of the base 2340 defines an opening 2347 that receives a transfer axle 2388 included in the drive wheel assembly 2370. More specifically, the transfer axle 2388 can rotate within the opening 2347 of the axle portion 2346 such that a rotational motion can be transferred from one of the drive assemblies 2370 to the other drive assembly 2370, as described in further detail herein.

[1088] The side walls 2342 each define a notch 2343 and include the spring protrusion 2344. More specifically, the spring protrusions 2344 each extend in a substantially perpendicular direction from the side walls 2342. As shown in FIGS. 13 and 14, when the side members 2320 are coupled to the base 2340, the notches 2322 of the side members 2320 each receive one of the spring protrusions 2344 of the base 2340. Similarly, when the side

Aretech LLC - Exhibit 1002, Page 00043

members 2320 are coupled to the base 2340, the notches 2343 defined by the base 2340 each receive a portion of one of the springs 2324. In this manner, the spring rod 2323 and the spring 2324 of each side member 2320 are aligned with the spring protrusion 2344 extending from the side walls 2342 of the base 2340 such that the spring 2324 is placed in contact with a surface of the corresponding spring protrusion 2344. With the side members 2320 movably coupled to the base 2340 (e.g., by disposing the mounting hardware in the slots 2325), the spring 2324 of each side member 2320 can dampen a movement of the side member 2320 relative to the base 2340. Similarly stated, the spring 2324 of each side member 2320 can engage the surface of the corresponding spring protrusion 2344 to exert a reaction force (e.g., brought on by a compression of the spring) in response to an external force (e.g., operational vibration, torque exerted by the motor, or the like) applied to one or both of the side members 2320.

[1089] FIGS. 17-19 illustrate one of each of the leading support members 2350, the trailing support members 2354, and the transverse support members 2358, respectively. As described above, the symmetry of the first drive assembly 2310 is such that the two leading support member 2350 are the same, the two trailing support members 2354 are the same, and the two transverse support members 2358 are the same. The leading support members 2350 are each fixedly coupled to one of the side members 2320. As shown in FIG. 17, the leading support members 2350 each define a lever arm notch 2355 that receives a lever arm 2391 of the secondary wheel assembly 2390, a spring recess 2352 that receives a spring 2394 of the secondary wheel assembly 2390, and a support track notch 2353 that receives, for example, a horizontal portion 2051 of the support track 2050 (see e.g., FIG. 23).

[1090] The trailing support members 2354 are each fixedly coupled to one of the side members 2320 and are disposed in a rearward position relative to the leading support members 2354. Expanding further, the trailing support members 2354 are spaced apart from the leading support members 2354 at a distance sufficiently large to allow a portion of the drive wheel assemblies 2370 to be disposed therebetween. As shown in FIG. 18, the trailing support members 2354 each define a belt notch 2355 configured to receive a drive belt 2389 of the drive wheel assembly 2370 and a support track notch 2353 configured to receive the horizontal portion 2051 of the support track 2050 (e.g., as described with reference to the leading support member 2350).

[1091] The transverse support members 2358 are each fixedly coupled to one of the leading support members 2350 and one of the trailing support members 2354. Therefore,

Aretech LLC - Exhibit 1002, Page 00044

with the leading support members 2350 and the trailing support members 2354 each coupled to the corresponding side member 2320, the transverse support member 2358 substantially encloses a space configured to house or receive a portion of the drive wheel assemblies 2370. Furthermore, the arrangement of the support structure 2315 is such that a space defined between adjacent surfaces of the transverse support member 2358 is sufficiently large to receive, for example, a vertical portion 2052 of the support track 2050.

[1092] As shown in FIG. 19, the transverse support member 2358 defines a bearing opening 2359 that receives a support bearing 2377 of the drive wheel assemblies 2370. More specifically, the support bearing 2377 is disposed within the bearing opening 2359 such that an outer surface of the support bearing 2377 forms a friction fit with a surface of the transverse support member 2358 that defines the bearing opening 2359. Similarly stated, the outer surface of the support bearing 2377 and the surface of the transverse support member 2358 form a press fit to retain the support bearing 2377 within the bearing opening 2359.

[1093] Referring back to FIGS. 13-15, the first drive assembly 2310 includes four guide wheel assemblies 2360. The guide wheel assemblies 2360 each include a mounting bracket 2361 and a guide wheel 2363. More specifically, each of the guide wheels 2363 are rotatably coupled to one of the mounting brackets 2361 such that the guide wheels 2363 can rotate relative to the mounting brackets 2361.

[1094] The guide wheel assemblies 2360 are each configured to be coupled to a portion of the support structure 2315. Expanding further, as shown in FIGS. 13-16, the mounting bracket 2361 of each guide wheel assembly 2360 is coupled to one of the leading support members 2350 or one of the trailing support members 2354. Similarly stated, both of the leading support members 2350 are coupled to the mounting bracket 2361 included in one of the guide wheel assemblies 2360 and both of the trailing support members 2354 are coupled to the mounting bracket 2361 included in one of the guide wheel assemblies 2360. The guide wheel assemblies 2360 are coupled to the support structure 2315 such that a portion of the guide wheel 2363 extends into the space defined between the transverse members 2358. In this manner, the guide wheels 2363 can roll along a surface of the vertical portion 2052 of the support track 2050 when the first drive assembly 2310 is coupled thereto (see e.g., FIG. 23).

[1095] As shown in FIGS. 13-15, the guide wheel assemblies 2360 can be arranged relative to the support structure 2315 such that the guide wheels 2363 included in the guide wheel assemblies 2360 that are coupled to the leading support member 2350 are disposed

Aretech LLC - Exhibit 1002, Page 00045

substantially below the mounting bracket 2361. Conversely, the guide wheels 2363 included in the guide wheel assemblies 2360 that are coupled to the trailing support member 2350 are disposed substantially above the mounting bracket 2361. This arrangement can increase the surface area of the vertical portion 2051 of the support track 2050 that is in contact with at least one guide wheel 2360. In this manner, a rotational motional about a longitudinal centerline (not shown) of the support track 2050 can be minimized or eliminated. While shown in as being in a particular arrangement, in other embodiments, the guide wheels 2363 can be arranged in any suitable manner. For example, in some embodiments, all the guide wheels 2363 can be mounted below the mounting brackets 2361. In other embodiments, all the guide wheels 2363 can be mounted above the mounting brackets 2361. In still other embodiments, the guide wheels 2363 can be mounted to the mounting brackets 2361 in any combination of configurations (e.g., mounted above or below the mounting brackets 2361 in any suitable arrangement).

[1096] FIG. 20 is an exploded view of the drive wheel assembly 2370. As described above, the symmetry of the first drive assembly 2310 is such that the drive wheel assemblies are the same. Thus, a discussion of the drive wheel assembly 2370 shown in FIG. 20 applies to both drive wheel assemblies 2370. The drive wheel assembly 2370 includes a drive shaft 2371, the drive bearing 2376, the support bearing 2377, a drive sprocket 2379, a transfer sprocket 2381, a drive wheel 2385, the transfer axle 2388 (not shown in FIG. 20), and a drive belt 2389. The drive shaft 2371 has a first portion 2372, a second portion 2373, and a third portion 2374 and defines an opening 2375. The first portion 2372 has a first diameter that is at least partially associated with the drive sprocket 2378. Expanding further, the drive sprocket 2378 defines an opening 2380 that has a diameter that is associated with the diameter of the first portion 2372 of the drive shaft 2371. In this manner, the drive sprocket 2378 is disposed about the first portion 2372 of the drive shaft 2371 such that a surface of the drive sprocket 2378 defining the opening 2380 forms a friction fit with an outer surface of the first portion 2372 of the drive shaft 2371. Similarly, the drive bearing 2376 is disposed about the first portion 2372 such that an inner surface of the bearing forms a friction fit with the outer surface of the second portion 2372 of the drive shaft 2371. Thus, a rotation of the drive shaft 2371 within the drive bearing 2376 rotates the drive sprocket 2378. Moreover, with the drive bearing 2376 being retained with the bearing opening 2321 of one of the side member 2370, the drive shaft 2371 can be rotated relative to the corresponding side member 2370, as described in further detail herein.

Aretech LLC - Exhibit 1002, Page 00046

[1097] The second portion 2373 of the drive shaft 2371 has a second diameter that is smaller than the diameter of the first portion 2372 and that is at least partially associated with the drive wheel 2385. Expanding further, the drive wheel 2385 includes a hub 2386 that defines an opening 2387 with a diameter that is associated with the diameter of the second portion 2373 of the drive shaft 2371. As shown in FIG. 20, the opening 2387 of the drive wheel 2385 includes a keyway configured to receive a key that extends from an outer surface of the second portion 2373 of the drive shaft 2371. In this manner, the drive wheel 2385 is fixedly disposed about the second portion 2373 of the drive shaft 2373.

[1098] The third portion 2374 of the drive shaft 2371 has a third diameter that is smaller than the diameter of the second portion 2372 and that is at least partially associated with the support bearing 2377. Expanding further, the support bearing 2377 is disposed about the third portion 2374 of the drive shaft 2371 such that an outer surface of the third portion 2374 forms a friction fit with an inner surface of the support bearing 2377. Moreover, with the support bearing 2377 being disposed within the bearing opening 2359 of the transverse support member 2358, the third portion 2374 of the drive shaft 2371 can be at least partially supported.

[1099] The opening 2375 defined by the drive shaft 2371 receives the output shaft 2312 of the motor 2311. More specifically, the drive shaft 2371 can be fixedly coupled, at least temporarily, to the output shaft 2312 of the motor 2311; thus, when the output shaft 2312 is rotated (e.g., in response to an activation signal from the electronic system 2700), the drive shaft 2371 is concurrently rotated. With the drive bearing 2376 and the support bearing 2377 being disposed within the bearing opening 2321 of the side member 2320 and the bearing opening 2359 of the transverse support member 2358, respectively, the drive shaft 2371 can rotate relative to the support structure 2315. Moreover, the rotation of the drive shaft 2371 rotates both the drive sprocket 2378 and the drive wheel 2385.

[1100] The drive sprocket 2378 is configured to engage the belt 2389. More specifically, the drive sprocket 2389 includes a set of teeth 2379 that engage a set of teeth (not shown) that extend from an inner surface of the belt 2389. The belt 2389 is further coupled the transfer sprocket 2381. The transfer sprocket 2381 includes a set of teeth 2382 that engage the teeth of the belt 2389. In this manner, the rotation of the drive sprocket 2378 (described above) rotates the belt 2389, which, in turn, rotates the transfer sprocket 2381. The transfer sprocket 2381 defines an opening 2383 configured to receive the transfer axle 2388 (see e.g., FIG. 16). More specifically, the transfer axle 2388 can be fixedly coupled to the transfer sprockets

Aretech LLC - Exhibit 1002, Page 00047

2381 of each drive wheel assembly 2370 such that a rotation of the transfer sprocket 2381 of the first drive wheel assembly 2370 (e.g., the drive wheel assembly 2370 coupled to the output shaft 2312 of the motor 2311) rotates the transfer sprocket 2381 of the second drive wheel assembly 2370. Thus, when the motor 2311 is activated to rotate the output shaft 2312, both the drive wheels 2385 of both the drive wheel assemblies 2370 are urged to rotate.

[1101] In some embodiments, the side members 2320 and the base 2340 of the support structure 2315 can be arranged such that the spring 2324 of the side members 2320 is in a preloaded configuration (e.g., partially compressed without an additional external force being applied to one or both of the side members 2320). More specifically, each spring 2324 can exert a force (e.g., due to the preload) on the surface of the corresponding spring protrusion 2344 of the base 2340 to place the corresponding side member 2320 in a desired position relative to the base 2340. Moreover, with the drive bearings 2376 fixedly disposed within the bearing opening 2321 of the corresponding side members 2320 and with the transfer axle 2388 being disposed within the opening 2347 defined by the axle portion 2346 of the base 2340, the belt 2379 disposed about the drive sprocket 2378 and the transfer sprocket 2381 can be placed in tension. Thus, the arrangement of the side members 2320 being movably coupled to the base 2340 can retain the belt 2379 in a suitable amount tension such that the belt 2379 does not substantially slip along the teeth 2379 of the drive sprocket 2378 and/or along the teeth 2382 of the transfer sprocket 2381.

[1102] As shown in FIG. 21, the first drive assembly 2310 includes the secondary wheel assembly 2390. The secondary wheel assembly 2390 includes a lever arm 2391, a secondary wheel 2393, and a spring 2394. The lever arm 2391 is a substantially angled member that includes an axle portion 2392, a pivot portion 2395, and an engagement portion 2396. The axle portion 2392 is disposed at a first end of the lever arm 2391 and is movably coupled to the secondary wheel 2393 such that the secondary wheel 2393 rotates about the axle portion 2392. The pivot portion 2395 is movably coupled to a portion of the leading support member 2350 that defines the lever arm notch 2351. For example, in some embodiments, the pivot portion 2395 of the lever arm 2391 can include an opening configured to receive, for example, a pivot pin (not shown) included in the leading support member 2350. In this manner, the pivot pin can define an axis about which the pivot portion 2395 can pivot or rotate.

[1103] The engagement portion 2396 is configured to engage a portion of the spring 2394. More specifically, as shown in FIG. 22, a first end portion of the spring 2394 is in

Aretech LLC - Exhibit 1002, Page 00048

contact with the spring recess 2352 defined by the leading support member 2350 and a second end portion of the spring 2394 is in contact with the engagement portion 2396. In this manner, the spring 2394 can exert a force on the engagement portion 2396 to pivot the lever arm 2391 about the pivot portion 2395. Expanding further, as shown in FIGS. 22, the force exerted by the spring 2394 can pivot the lever arm 2391 such that the secondary wheel 2393 is pivoted towards the drive wheel 2385. Therefore, when the first drive assembly 2310 is disposed about the support track 2050, the secondary wheel 2393 can be placed in contact with a bottom surface of the horizontal portion 2051 of the support track 2050. Moreover, the force exerted by the spring 2394 can be such that the drive wheel 2385 and the secondary wheel 2393 exert a compressive force on a top surface and the bottom surface, respectively, of the horizontal portion 2051 of the support track 2051. This arrangement can, for example, increase the friction between the drive wheel 2385 and the horizontal portion 2051 of the support track 2050.

[1104] FIGS. 24-26 illustrate the second drive assembly 2400. The second drive assembly 2400 can function similarly to the first drive assembly 2310, thus, some portions of the second drive assembly 2400 are not described in further detail herein. The second drive assembly 2400 includes a support structure 2405, a set of guide wheel assemblies 2430, a set of primary wheel assemblies 2440, a coupler 2460, and an encoder 2470. As shown, at least a portion of the second drive assembly 2400 is substantially symmetrical about a longitudinal plane (not shown) defined by the second drive assembly 2400. In this manner, each side of the second drive assembly 2400 includes similar components, thereby increasing versatility and decreasing manufacturing costs. For example, while the second drive assembly 2400 is shown including two side members 2420 with the coupler 2460 and encoder 2470 being coupled to a particular side member 2420, in other embodiments, the coupler 2460 and encoder 2470 can be coupled to the other side member 2420.

[1105] The support structure 2405 includes two side members 2410, a base 2420, a set of leading support members 2431, a set of trailing support members 2432, and a set of transverse support members 2433. As shown in FIGS. 24-26, the side members 2410 are the same (e.g., due to the symmetry of the first drive assembly 2400). The side members 2410 each define a bearing opening 2411 that receives a bearing 2454 (FIG. 25) included in the drive wheel assembly 2470. More specifically, the bearing 2454 can be disposed within the bearing opening 2411 such that an outer surface of the drive bearing 2454 forms a friction fit with a surface of the side member 2410 that defines the bearing opening 2411. Similarly

Aretech LLC - Exhibit 1002, Page 00049

stated, the drive bearing 2454 and the surface of the side 2410 defining the bearing opening 2411 form a press fit to retain the drive bearing 2454 within the bearing opening 2411.

[1106] The base 2420 is configured to be fixedly coupled to the side members 2410. The base 2420 includes a mounting plate 2421 configured to extend from a top surface and from a bottom surface of the base 2420 to couple the second drive assembly 2400 to the base 2210 of the housing 2200 (e.g., via any suitable mounting hardware such as, for example, mechanical fasteners or the like). The arrangement of the mounting plate 2421 can be such that when the second drive assembly 2400 is disposed about the support track 2050, the mounting plate 2421 can substantially limit a movement of the second drive mechanism 2400 in transverse direction relative to the longitudinal centerline (not shown) of the support track 2050. In some embodiments, the mounting plate 2421 can include any suitable surface finish that can be sufficiently smooth to slide along a bottom surface of the horizontal portion 2051 of the support track 2050. In other embodiments, the mounting plate 2421 can be formed from a material such as, for example, nylon or the like that facilitates the sliding of the mounting plate 2421 along the bottom surface of the support track 2050.

[1107] The leading support members 2431, the trailing support members 2432, and the transverse support members 2433 can be arranged similar to the leading support members 2350, the trailing support members 2354, and the transverse support members 2358 described above with reference to FIGS. 17-19. In this manner, the side members 2410 and the support members 2431, 2432, and 2433 can define a space configured to substantially enclose at least a portion of the primary wheel assemblies 2440. Moreover, the transverse support members 2433 can define an opening configured to receive a bearing 2454 of the primary wheel assembly 2350 in a similar manner as the transverse member 2333 described above. As shown in FIGS. 24-26, the leading support members 2431, the trailing support members 2432, and the transverse support members 2433 can differ, however, in that the leading support members 2431, the trailing support members 2432, and the transverse support members 2433 need not include one or more notches and/or recesses to accommodate any portion of the second drive assembly 2400.

[1108] The first drive assembly 2400 includes four guide wheel assemblies 2440. The guide wheel assemblies 2440 each include a mounting bracket 2441 and a guide wheel 2443. More specifically, each of the guide wheels 2443 are rotatably coupled to one of the mounting brackets 2441 such that the guide wheels 2443 can rotate relative to the mounting brackets 2441. The guide wheel assemblies 2440 are each configured to be coupled to a

Aretech LLC - Exhibit 1002, Page 00050

portion of the support structure 2405. Expanding further, as shown in FIGS. 24-26, the mounting bracket 2441 of each guide wheel assembly 2440 is coupled to one of the leading support members 2431 or one of the trailing support members 2432. Similarly stated, both of the leading support members 2431 are coupled to the mounting bracket 2441 included in one of the guide wheel assemblies 2440 and both of the trailing support members 2432 are coupled to the mounting bracket 2441 included in one of the guide wheel assemblies 2440. The guide wheel assemblies 2440 are coupled to the support structure 2405 such that a portion of the guide wheel 2443 extends into the space defined between the transverse members 2433. In this manner, the guide wheels 2443 can roll along a surface of the vertical portion 2052 of the support track 2050 when the second drive assembly 2400 is coupled thereto (see e.g., FIG. 26). As described above with reference to the first drive assembly 2310, the guide wheel assemblies 2440 can be arranged in any suitable configuration to limit a rotational movement of the second drive assembly 2400 about the longitudinal centerline of the support track 2050.

[1109] The primary wheel assemblies 2450 each include a primary wheel 2451 having a hub 2452 and an axle 2453, and the bearings 2454. As described above, the axle 2453 can be disposed within the bearings 2354 while the bearings 2354 are coupled to the side members 2410 and the transverse members 2433. In this manner, each primary wheel 2451 can rotate about the corresponding axle 2453 relative to the support structure 2405. As shown in FIG. 26, the second drive assembly 2400 is disposed about the support track 2050 such that the primary wheels 2451 roll along the top surface of the horizontal portion 2051. Similarly, the guide wheels 2443 roll along a surface of the vertical portion 2052 of the support track 2050.

[1110] As shown in FIGS. 24 and 26, the axle 2453 is configured to extend through the bearing 2454 disposed within the opening 2411 of the side members 2410. In this manner, the coupler 2460 can couple to the axle 2453 to couple the axle 2453 to the encoder 2470. Thus, the encoder 2470 can receive and/or determine information associated with the rotation of the primary wheel 2451. For example, the encoder 2470 can determine position, rotational velocity, rotational acceleration, or the like. Furthermore, the encoder 2470 can be in electrical communication (e.g., via a wired communication or a wireless communication) with a portion of the electronic system 2700 and can send information associated with the second drive assembly 2400 to the portion of the electronic system 2700. Upon receiving the information from the encoder 2470, a portion of the electronic system 2700 can send a signal to any other suitable system associated with performing an action (e.g., increasing or decreasing the power of one or more motors or the like), as described in further detail herein.

Aretech LLC - Exhibit 1002, Page 00051

In some instances, the electronic system 2700 can determine the position of the trolley 2100 relative to the support track 2050 based at least in part on the information sent from the encoder 2470 associated with the second drive assembly 2400. In such instances, a user (e.g., doctor, physician, nurse, technician, or the like) can input a set of parameters associated with a portion of the support track 2050 along which the trolley 2100 moves. In this manner, the user can define a desired path along the support track 2050 for a therapy session.

[1111] FIGS. 27-33 illustrate the support mechanism 2500 included in the trolley 2100. As shown in FIG. 27, the support mechanism 2500 includes a tether 2505, a winch assembly 2510, a guide mechanism 2540, a first pulley 2563, a second pulley 2565, and a cam mechanism 2570. The tether 2505 can be, for example, a rope or other long flexible member that can be formed from any suitable material such as nylon or other suitable polymer. The tether 2505 includes a first end portion 2506 that is coupled to a portion of the winch assembly 2510 and a second end portion 2507 that can be coupled to any suitable patient attachment mechanism such as, for example, the patient attachment mechanism 2800 shown in FIG. 34. The tether 2505 is configured to engage a portion of the winch assembly 2510, the guide mechanism 2540, the cam mechanism 2570, the first pulley 2563, and the second pulley 2565 such that the support mechanism 2500 actively supports at least a portion of the body weight of a patient, as described in further detail herein.

[1112] As shown in FIGS. 29 and 30, the winch assembly 2510 includes a motor 2511, a mounting flange 2515, a coupler 2520, a drum 2525, and encoder assembly 5230. The motor 2511 is coupled to the coupler 2520 and is in electrical communication with a portion of the electronic system 2700. The motor 2511 includes an output shaft 2512 that engages an input portion (not shown) of the coupler 2520 such that rotation of the output shaft 2512 of the motor 2511 rotates an output member 2521 of the coupler 2520. More specifically, the motor 2511 receives an activation signal (e.g., a flow of electrical current) from the electronic system 2700 to cause the motor 2511 to rotate the output shaft 2512 in a first rotational direction or in a second rotational direction, opposite the first rotational direction. The output shaft 2512, in turn, rotates the output member 2521 of the coupler 2520 in the first rotational direction or the second rotational direction, respectively.

[1113] The mounting flange 2515 is disposed about a portion of the coupler 2520 and includes a portion that can be coupled to the third side member 2250 of the housing 2200. In this manner, the motor 2511 is supported by the mounting flange 2515 and the housing 2200. The output member 2521 of the coupler 2520 is coupled to a mounting plate 2522 of the

Aretech LLC - Exhibit 1002, Page 00052

drum 2525 such that when the output shaft 2512 of the motor 2511 is rotated in the first direction or the second direction, the drum 2525 is rotated in first direction or the second direction, respectively. While not shown, in some embodiments, the coupler 2520 can include one or more gears that can be arranged in any suitable manner to define a desirable gear ratio. In this manner, the rotation of the output shaft 2512 can be in the first direction or the second direction with a first rotational velocity and the rotation of the drum 2525 can be in the first direction or the second direction, respectively, with a second rotational velocity that is different from the first rotational velocity of the output shaft 2525 (e.g., a greater or lesser rotational velocity). In some embodiments, the coupler 2520 can include one or more clutches that can be configured to reduce and/or dampen an impulse (i.e., a force) that can result from the electronic system 2700 sending a signal to the motor 2511 that is associated with changing the rotational direction of the output shaft 2512.

[1114] The drum 2525 is disposed between the mounting plate 2522 and an end plate 2529. As described in further detail herein, an encoder drum 2531 of the encoder assembly 2530 is coupled to the end flange 2529 such that a least a portion of the encoder assembly 2530 is disposed within an inner volume 2528 defined by the drum 2525. The drum 2525 has an outer surface 2526 that defines a set of helical grooves 2527. The helical grooves 2527 receive a portion of the tether 2505 and define a path along which the tether 2505 can wrap to coil and/or uncoil around the drum 2525. For example, the motor 2511 can receive a signal from the electronic system 2700 to rotate the output shaft 2512 in the first direction. In this manner, the drum 2525 is rotated in the first direction and the tether 2505 can be, for example, coiled around the drum 2525. Conversely, the motor 2511 can receive a signal from the electronic system 2700 to rotate the output shaft 2512 in the second direction, thus, the drum is rotated in the second direction and the tether 2505 can be, for example, uncoiled from the drum 2525.

[1115] The encoder assembly 2530 includes the encoder drum 2531, a mounting flange 2532, a bearing bracket 2533, a bearing 2535, a coupler 2536, an encoder 2537, and an encoder housing 2538. As described above, a first end portion of the encoder drum 2531 is coupled to the end flange 2529 of the drum 2525 such that a portion of the encoder assembly 2530 is disposed within the inner volume 2528 of the drum 2525. The mounting flange 2532 is coupled to a second end portion of the encoder drum 2531 and is further coupled to the bearing bracket 2533. The bearing bracket 2533 includes an axle 2534 about which the bearing 2535 is disposed. The coupler 2536 is coupled to the axle 2534 of the bearing bracket 2533 and is configured to couple the encoder 2537 to the bearing bracket 2533. As

Aretech LLC - Exhibit 1002, Page 00053

shown in FIG. 28, the coupler 2536 and the encoder 2537 are disposed within the encoder housing 2538. More specifically, the coupler 2536 is movably disposed within the encoder housing 2538 and the encoder 2537 is fixedly coupled to the encoder housing 2538. Moreover, a first end portion of the encoder housing 2538 is disposed about the bearing 2535 and a second end portion of the encoder housing 2538 is in contact with and fixedly coupled to the recessed portion 2244 of the second side member 2240 of the housing 2240. In this manner, the encoder drum 2531, the mounting flange 2532, the bearing bracket 2533, and the coupler 2536 are configured to rotate concurrently with the drum 2525, relative to the encoder 2537 and the encoder housing 2538. Thus, the encoder 2537 can receive and/or determine information associated with the rotation of the drum 2525. For example, the encoder 2537 can determine position, rotational velocity, rotational acceleration, feed rate of the tether 2505, or the like. Furthermore, the encoder 2537 can be in electrical communication (e.g., via a wired communication or a wireless communication) with a portion of the electronic system 2700 and can send information associated with the winch assembly 2510 to the portion of the electronic system 2700. Upon receiving the information from the encoder 2537, a portion of the electronic system 2700 can send a signal to any other suitable system associated with performing an action (e.g., increasing or decreasing the power of one or more motors or the like), as described in further detail herein.

[1116] Referring back to FIG. 27, the guide mechanism 2540 of the support mechanism 2500 is at least partially disposed within the guide mechanism opening 2215 of the base 2210 included in the housing 2200. More specifically, the guide mechanism 2540 includes a set of mounting brackets 2541 that are coupled to the mounting tabs 2216 of the base 2210. In this manner, at least a portion of the guide mechanism 2540 is suspended within the guide mechanism opening 2215. As shown in FIG. 31, the guide mechanism 2540 includes the mounting brackets 2541, a guide drum assembly 2545, a stopper bracket 2550, a stopper 2551, a roller assembly 2554, a coupler 2559, a support bracket 2560, and an encoder 2561. As described above, the mounting brackets 2541 are coupled to the mounting tabs 2216 of the base 2210. The mounting brackets 2541 each include a first mounting portion 2542 that is movably coupled to a portion of the guide drum assembly 2545, a second mounting portion 2543 that is fixedly coupled to the stopper bracket 2550, and a pivot portion 2544 that is movably coupled to a portion of the roller assembly 2554. The stopper bracket 2550 is further coupled to the stopper 2551 and is configured to limit a movement of the guide drum assembly 2545 relative to the mounting brackets 2541.

Aretech LLC - Exhibit 1002, Page 00054

[1117] The guide drum assembly 2545 includes a guide drum 2546, a set of pivot plates 2547, and a stopper plate 2549. The guide drum 2546 is movably coupled to the pivot plates 2547. For example, while not shown in FIG. 31, the pivot plates 2547 can each include an opening configured to receive an axle about which the guide drum 2546 can rotate. The pivot plates 2547 each include a pivot axle 2548 that can be disposed within an opening (not shown) defined by the first mounting portion 2542 of the mounting brackets 2541. In this manner, the guide drum assembly 2545 can pivot about the pivot axles 2548 relative to the mounting brackets 2541. The stopper plate 2549 is coupled to the pivot plates 2547 and is configured to engage a portion of the stopper 2551 to limit the pivoting motion of the guide drum assembly 2545 relative to the mounting brackets 2541. More specifically, with the stopper bracket 2550 fixedly coupled to the mounting brackets 2541 and to the stopper 2551, the guide drum assembly 2545 can pivot toward the stopper bracket 2550 (e.g., in response to a force exerted on tether 2505, as described in further detail herein) such that the stopper plate 2549 is placed in contact with the stopper 2551. The stopper 2551 can be any suitable shape, size, or configuration. For example, in some embodiments, the stopper 2551 can be an elastomeric member configured to absorb a portion of a force exerted by the guide drum assembly 2545 when the stopper plate 2549 is placed in contact with the stopper 2551.

[1118] The roller assembly 2554 includes a set of swing arms 2555 and a set of rollers 2558. The swing arms 2555 include a first end portion 2556 and a second end portion 2557. The first end portion 2556 of the swing arms 2555 are movably coupled to the rollers 2558. More specifically, the rollers 2558 can be arranged such that a spaced defined between the rollers 2558 can receive a portion of the tether 2505. Thus, when the tether 2505 is moved relative to the rollers 2558, the rollers 2558 can rotate relative to the swing arms 2555. The second end portion 2557 of the swing arms 2555 are coupled to the pivot portion 2543 of the mounting brackets 2541. For example, as shown in FIG. 31, the pivot portion 2543 can include a set of axles disposed within a bearing. In this manner, the second end portion 2557 of the swing arms 2555 can couple to the axles such that the roller assembly 2554 and the axles can pivot relative to the mounting brackets 2541 (e.g., in response to a force exerted on tether 2505, as described in further detail herein).

[1119] The coupler 2559 included in the guide mechanism 2540 is coupled to the axle of the pivot portion 2543 of one of the mounting brackets 2541. The coupler 2559 is further coupled to an input shaft of the encoder 2561. More specifically, the support bracket 2560 is coupled to the base 2210 of the housing 2200 and is also coupled to a portion of the encoder 2561 to limit the movement of a portion of the encoder 2561 relative to the base 2210. Thus,

Aretech LLC - Exhibit 1002, Page 00055

the encoder 2561 can receive and/or determine information associated with the pivoting motion of the roller assembly 2554 relative to the mounting brackets 2541. For example, the encoder 2561 can determine position, rotational velocity, rotational acceleration, feed rate of the tether 2505, or the like. Furthermore, the encoder 2561 can be in electrical communication (e.g., via a wired communication or a wireless communication) with a portion of the electronic system 2700 and can send information associated with the guide mechanism 2540 to the portion of the electronic system 2700. Upon receiving the information from the encoder 2561, a portion of the electronic system 2700 can send a signal to any other suitable system associated with performing an action (e.g., increasing or decreasing the power of one or more motors 2311 and 2511, changing the direction of one or more of the motors 2311 and 2511, or the like).

[1120] As shown in FIG. 32, the first pulley 2563 and the second pulley 2565 are rotatably coupled to a first pulley bracket 2564 and a second pulley bracket 2565, respectively. The first pulley bracket 2564 and the second pulley bracket 2565 are further coupled to the base 2210 of the housing 2200. In this manner, the first pulley 2563, the second pulley 2565, and at least a portion of the cam mechanism 2570 can be engage the tether 2505 to provide a mechanical advantage to the winch assembly 2510, as described in further detail herein.

[1121] As shown in FIGS. 32 and 33, the cam mechanism 2570 includes a cam pulley assembly 2571, a cam 2580, a coupler 2585, a coupler housing 2586, an encoder 2587, and a bias mechanism 2588. The cam pulley assembly 2571 includes a cam pulley 2572, a cam arm 2574, a cam axle 2575, and a spacer 2576. The cam arm 2574 includes a first end portion that is rotatably coupled to the cam pulley 2572 and a second end portion that is rotatably coupled to the cam axle 2575. The cam axle 2575 extends through the cam pivot opening 2220 (defined by the base 2210), the spacer 2576, and the cam 2580 to be coupled to the coupler 2585. The spacer 2576 is coupled to the base 2210 and is disposed between the second side 2212 of the base 2210 and a surface of the cam 2580. The spacer 2576 can be formed from a material having a relatively low friction coefficient such as, for example, polyethylene, nylon, or the like to allow the cam 2580 to move relatively easily along a surface of the spacer 2576. In this manner, the cam 2580 is spaced a sufficient distance from the second side 2212 of the base 2210 to allow a portion of the bias mechanism 2588 to be disposed therebetween, as described in further detail herein.

Aretech LLC - Exhibit 1002, Page 00056

[1122] The cam 2580 of the cam assembly 2570 defines an opening 2581, and includes a mounting portion 2582 and an engagement surface 2583. The engagement surface 2583 of the cam 2580 is in contact with a portion of the bias mechanism 2588, as described in further detail herein. The opening 2581 defined by the cam 2580 receives a bearing 2584. When disposed within the opening 2581, the bearing 2584 allows the cam 2580 to rotate about the cam axle 2575. The mounting portion 2582 of the cam 2580 is at least partially disposed within the cam pulley opening 2219 and is coupled to the cam pulley 2572. For example, as shown in FIG. 33, the mounting portion 2582 is a threaded rod extending from a surface of the cam 2580 that can be received by a threaded opening (not shown) defined by the cam pulley 2572. In this manner, movement of the cam pulley assembly 2571, in response to a change in force exerted on the tether 2505 (e.g., an increase or a decrease of force), rotates the cam 2580 about the cam axle 2575 (as described above).

[1123] The coupler housing 2586 is coupled to a surface of the cam 2580 that is opposite the side adjacent to the spacer 2576. In other words, the coupler housing 2586 extends away from the base 2210 when coupled to the cam 2580. The coupler housing 2586 is further coupled to the encoder 2587. Thus, when the cam 2580 is rotated about the cam axle 2575, the coupler housing 2586 and the encoder 2587 are also rotated about the cam axle 2575. The coupler 2585 is disposed within the coupler housing 2586 and is coupled to both the cam axle 2575 and an input portion (not shown) of the encoder 2575. Therefore, with the coupler 2585 coupled the to the cam axle 2575 and the input portion of the encoder 2587, the rotation of the cam 2580 and the coupler housing 2586 rotates the encoder 2587 about its input portion. In this manner, the encoder 2587 can receive and/or determine information associated with the pivoting motion of the cam 2580 and/or the cam pulley assembly 2571 relative to the cam axle 2575. For example, the encoder 2587 can determine position, rotational velocity, rotational acceleration, feed rate of the tether 2505, or the like. Furthermore, the encoder 2587 can be in electrical communication (e.g., via a wired communication or a wireless communication) with a portion of the electronic system 2700 and can send information associated with the cam mechanism 2570 to the portion of the electronic system 2700. Upon receiving the information from the encoder 2587, a portion of the electronic system 2700 can send a signal to any other suitable system associated with performing an action (e.g., increasing or decreasing the power of one or more motors 2311 and 2511, changing the direction of one or more of the motors 2311 and 2511, or the like).

[1124] The bias mechanism 2588 includes an axle 2589, a mounting flange 2590, a first pivot arm 2591, a second pivot arm 2595, a guide member 2596, a bias member 2597, and a

Aretech LLC - Exhibit 1002, Page 00057

mounting post 2598. The axle 2589 is movably disposed within the mounting flange 2588 and is configured to extend through the bias mechanism opening 2217 defined by the base 2210 to be fixedly disposed within an axle opening 2592 defined by the second pivot arm 2591. Expanding further, a portion of the mounting flange 2589 extends through the bias mechanism opening 2217 and beyond the second side 2212 of the base 2210 to be in contact with a surface of the second pivot arm 2591. In this manner, the surface of the second pivot arm 2591 is offset from the second side 2212 of the base 2210. Moreover, the arrangement of the spacer 2576 (described above) is such that when the axle 2589 is disposed within the axle opening 2592, a second surface of the first pivot arm 2591 is offset from a surface of the cam 2580. Thus, the first pivot arm 2591 can pivot relative to the base 2210 with a relatively low amount of friction. In some embodiments, at least the portion of the mounting flange 2590 that extends through the bias mechanism opening 2217 can be made from a material having a relatively low coefficient of friction such as, for example, polyethylene, nylon, or the like.

[1125] The first pivot arm 2591 defines the axle opening 2592 and a guide member opening 2593, and includes an engagement member 2594. The guide member opening 2593 is configured to receive a portion of the guide member 2596 to couple the guide member 2596 to the first pivot arm 2591. The guide member 2596 extends from a surface of the first pivot arm 2591 toward the base 2210 such that a portion of the guide member 2596 extends through the guide member opening 2218 defined by the base 2210. In some embodiments, the guide member 2596 can include a sleeve or the like configured to engage the base 2210. In such embodiments, the sleeve can be formed from a material having a relatively low friction coefficient such as, for example, polyethylene, nylon, or the like. Thus, the guide member 2596 can move within the guide member track 2218 when the first pivot arm 2591 is moved relative to the base 2210.

[1126] The engagement member 2594 of the first pivot arm 2591 extends from a surface of the first pivot arm 2591 toward the cam 2580. In this manner, the engagement member 2594 can be moved along the engagement surface 2583 of the cam 2580 when the cam 2580 is moved relative to the base 2210, as described in further detail herein. In some embodiments, the engagement member 2594 can be rotatably coupled to the first pivot arm 2591 and can be configured to roll along the engagement surface 2583. In other embodiments, the engagement member 2594 and/or the engagement surface 2583 can be formed from a material having a relatively low friction coefficient. In such embodiments, the engagement member 2594 can be slid along the engagement surface 2583.

Aretech LLC - Exhibit 1002, Page 00058

[1127] The second pivot arm 2595 of the bias mechanism 2588 has a first end portion that is fixedly coupled to the axle 2589 and a second end portion that is coupled to a first end portion of the bias member 2597. The mounting post 2598 is fixedly coupled to the base 2210 and is further coupled to a second end portion of the bias member 2597. Therefore, the second pivot arm 2595 can pivot relative to the mounting flange 2590 between a first position, where the bias member 2597 is in a first configuration (undeformed configuration), and a second position, where the bias member 2597 is in a second configuration (deformed configuration). For example, in some embodiments, the bias member 2597 can be a spring that can be moved between an uncompressed configuration (e.g., the first configuration) and a compressed configuration (e.g., the second configuration). In other embodiments, the bias member 2597 can be a spring that can be moved between an unexpanded and an expanded configuration. In other words, the bias member 2597 can be either a compression spring or an expansion spring, respectively. In still other embodiments, the bias member 2597 can be any other suitable biasing mechanism and/or energy storage device such as, for example, a gas strut or the like.

[1128] When the cam 2580 is rotated from a first position to a second position in response to a force exerted on the tether 2505 (as described above), the bias member 2597 can exert a reaction force that resists the rotation of the cam 2580. More specifically, with the engagement member 2594 in contact with the engagement surface 2583 of the cam 2580, the bias member 2587 exerts the reaction force that resists the movement of the engagement member 2594 along the engagement surface 2583. Therefore, in some instances, relatively small changes in the force exerted on the tether 2505 may not be sufficiently large to rotate the cam 2580 and the cam pulley assembly 2571. This arrangement can reduce undesirable changes in the amount of body weight supported by the support system 2000 in response to minor fluctuations of force exerted on the tether 2505.

[1129] FIG. 34 illustrates the patient attachment mechanism 2800. The patient attachment mechanism 2800 can be mated with the second end portion 2507 of the tether 2505 to couple the patient attachment mechanism 2800 to the trolley 2100. Moreover, the patient attachment mechanism 2800 can be coupled to a harness or the like, worn by the patient, to couple the patient to the support system 2000, as described below.

[1130] The patient attachment mechanism 2800 has a first coupling portion 2810 and a second coupling portion 2812. The first coupling portion 2810 includes a coupling mechanism 2811 configured to couple to the second end portion 2507 of the tether, as

Aretech LLC - Exhibit 1002, Page 00059

described above. For example, the coupling mechanism 2811 can be a loop or hook configured to couple to an attachment device of the tether 2505 (not shown in FIGS. 2-34). The second coupling portion 2821 is movably coupled to a first arm 2820 and a second arm 2840. As described in further detail herein, the first 2820 and the second arm 2840 can pivot relative to each other to absorb at least a portion of a force exerted by the weight of a patient coupled to the patient attachment mechanism 2800.

[1131] The first arm 2820 of the patient attachment mechanism 2800 includes a pivot portion 2821 and a mount portion 2822. The pivot portion 2821 is movably coupled to the second coupling portion 2812. The mount portion 2822 receives a guide rod 2830, as described in further detail herein. The first arm 2820 defines a slot 2824 that receives a portion of the second arm 2840 and an opening 2826 that receives a portion of a harness worn by the patient.

[1132] The second arm 2840 has a pivot portion 2841 and a coupling portion 2842. The pivot portion 2841 is movably coupled to the second coupling portion 2812. In this manner, both the first arm 2820 and the second arm 2840 can pivot relative to the coupling portion 2812 and relative to each other, as described in further detail herein. The coupling portion 2842 defines an opening 2843 that receives a portion of the harness worn by the patient. The coupling portion 2842 is also movably coupled to a first end portion of a first energy storage member 2844 and a first end portion of a second energy storage member 2851 (collectively referred to as energy storage member 2850). The energy storage members 2850 can be, for example, gas struts or the like.

[1133] As shown in FIG. 34, the energy storage members 2850 are configured to extend towards the first arm 2820. More specifically, the second energy storage member 2851 includes a coupling portion 2852 that is movably coupled to the guide rod 2830 of the first arm 2820. The first energy storage member 2844 also includes a coupling portion (not shown in FIG. 34) that is movably coupled to an engagement member 2845 and further coupled to the coupling portion 2852 of the second energy storage member 2851. Similarly stated, the coupling portion of the first energy storage member 2844 extends in a substantially perpendicular direction relative to a longitudinal centerline (not shown) of the first energy storage member 2844.

[1134] The engagement member 2845 is movably coupled to the coupling portion of the first energy storage member 2844 and the coupling portion 2852 of the second coupling

Aretech LLC - Exhibit 1002, Page 00060

portion 2851. The engagement member 2845 is configured to be placed in contact with an engagement surface 2825 of the first arm 2820 that at least partially defines the slot 2825. Similarly stated, the engagement member 2845 is disposed within the slot 2824 defined by the first arm 2820 and in contact 2825 with the engagement surface 2825. Moreover, the arrangement of the engagement member 2845 and the energy storage members 2850 allows the engagement member 2845 to roll along the engagement surface 2825.

[1135] When a force is exerted on the first arm 2820 the second arm 2840 by the patient, the first arm 2820 and the second arm 2840 pivot about the second coupling portion 2812 towards one another. The pivoting of the first arm 2820 and the second arm 2840 moves the engagement member 2845 along the engagement surface 2825 and further moves the energy storage members 2850 for a configuration of lower potential energy to a configuration of higher potential energy (e.g., compresses a gas strut). Thus, the energy storage members 2850 can absorb at least a portion of a force exerted of the patient attachment mechanism 2800. Moreover, when the force exerted on the patient attachment mechanism 2800 is less than the potential energy of the energy storage members 2850 in the second configuration, the energy storage members 2850 can move towards their first position to pivot the first arm 2820 and the second arm 2840 away from one another.

[1136] In use, the patient support system 2000 can be used to actively support at least a portion of the body weight of a patient that is coupled thereto. For example, in some instances, a patient is coupled to the patient attachment mechanism 2800 which, in turn, is coupled to the second end portion 2507 of the tether 2505, as described above. In this manner, the support system 2000 (e.g., the tether 2505, the trolley 2100, and the support rail 2050) can support at least a portion of the body weight of the patient.

[1137] In some instances, a user (e.g., a technician, a therapist, a doctor, a physician, or the like) can input a set of system parameters associated with the patient and the support system 2000. For example, in some embodiments, the user can input a set of system parameters via a remote control device such as, for example, a personal computer, a mobile device, a smart phone, or the like. In other embodiments, the user can input system parameters on, for example, a control panel included in or on the trolley 2100. The system parameters can include, for example, the body weight of the patient, the height of the patient, a desired amount of body weight to be supported by the support system 2000, a desired speed of the patient walking during gait therapy, a desired path or distance along the length of the support track 2050, or the like.

Aretech LLC - Exhibit 1002, Page 00061

[1138] With the system parameters entered the patient can begin, for example, a gait therapy session. In some instances, the trolley 2100 can move along the support structure 2050 (as described above with reference to FIGS. 23 and 26) in response to the movement of the patient. Similarly stated, the trolley 2100 can move along the support structure 2050 as the patient walks. In some instances, the trolley 2100 can be configured to remain substantially over-head of the patient. In such instances, the electronic system 2700 can execute a set of instructions associated with controlling the motor 2311 of the drive system 2300 based on information received from, for example, the encoder 2470 of the drive system 2300, the encoder 2561 of the guide mechanism 2540, and/or the encoder 2587 of the cam assembly 2570. For example, the electronic system 2700 can send a signal to the motor 2311 of the drive system 2300 operative in changing the rotational velocity of the drive wheels 2385 based at least in part on information associated with the encoder 2561 of the guide mechanism 2540. Expanding further, in some instances, the patient may walk faster than the trolley 2100, thereby changing the angle of the tether 2505 and the guide mechanism 2540 relative to the base 2210. Thus, the encoder 2561 of the guide mechanism 2540 can send a signal associated with the angle of the guide mechanism 2540 relative to the base 2210 and upon receiving the signal, the electronic system 2700 can send a signal to the motor 2311 of the drive system 2300 to increase the rotational velocity of the drive wheels 2385. In this manner, the position of the trolley 2100 relative to the patient can be actively controlled based at least in part on a user defined parameter and further based at least in part on information received from the encoder 2470 of the drive system 2300, the encoder 2561 of the guide mechanism 2540, and/or the encoder 2587 of the cam assembly 2570. Although described as being actively controlled to be over-head of the patient, in other instances, the user can define a parameter associated with the trolley 2100 trailing the patient by a desired distance or leading the patient by a desired distance.

[1139] In some instances, the amount of force exerted on the tether 2505 by the patient may increase or decrease. By way of example, a patient may stumble, thereby increasing the amount of force exerted on the tether 2505. In such instances, the increase of force exerted on the tether 2505 can pivot the guide mechanism 2540 and can move the cam pivot arm 2571 in response to the increase in force. The movement of the cam pivot arm 2571 moves the cam assembly 2570 (as described above with reference to FIG. 33). In this manner, the encoder 2561 of the guide mechanism 2540 and the encoder 2587 of the cam assembly 2570 can send a signal to the electronic system 2700 associated with the changes in the state of the guide mechanism 2540 and the cam assembly 2570, respectively.

Aretech LLC - Exhibit 1002, Page 00062

[1140] Upon receiving the signals from the encoders 2561 and 2587, the processor can execute a set of instructions included in the memory associated the cam assembly 2570. For example, the processor can determine the position of the cam 2580 or the guide mechanism 2540, the velocity and the acceleration of the cam 2580 or the guide mechanism 2540, or the like. Based on the determining of the changes in the guide mechanism 2540 and the cam assembly 2570 configurations, the processor can send a signal to the motor 2311 of the first drive assembly 2310 and/or the motor 2511 of the winch assembly 2510 to change the current state of the drive system 2300 and/or the patient support mechanism 2500. In some instances, the magnitude of change in the state of the drive system and/or the patient support mechanism 2500 is based at least in part on a proportional-integral-derivative (PID) control. In such instances, the electronic system 2700 (e.g., the processor or any other electronic device in communication with the processor) can determine the changes of the patient support mechanism 2500 and model the changes based on the PID control. Based on the result of the modeling the processor can determine the suitable magnitude of change in the drive system 2300 and/or the patient support mechanism 2500.

[1141] After a relatively short time period (e.g., much less than a second, for example, after one or a few clock cycles of the processor) the processor can receive a signal from the encoder 2470 of the drive system 2300, the encoder 2537 of the winch assembly 2510, the encoder 2561 of the guide mechanism 2540, and/or the encoder 2587 of the cam assembly 2570 associated with a change in configuration of the drive system 2300, the winch assembly 2510, the guide mechanism 2540, and/or the cam assembly 2570, respectively. In this manner, one or more of the electronic devices included in the electronic system 2700, including but not limited to the processor, execute a set of instructions stored in the memory associated with the feedback associated with the encoders 2470, 2537, 2561, and 2587. Thus, the drive system 2300 and the patient support mechanism 2500 of the trolley 2100 can be actively controlled in response to a change in force exerted on the tether 2505 and based at least in part on the current and/or previous states of the drive system 2300 and the patient support system 2500. Similarly stated, the support system 2000 can actively reduce the amount a patient falls after stumbling or falling for other reasons.

[1142] While the patient support system 2000 is described above with reference to FIGS. 2-34 as actively supporting a portion of the body weight of the patient, in some embodiments, a patient support system can passively (i.e., not actively) support a portion of the body weight of a patient. For example, FIGS. 35 and 36 illustrate a body weight support system 3900 according to an embodiment. The body weight support system 3900 (also referred to herein

Aretech LLC - Exhibit 1002, Page 00063

as "support system") can be used to support a portion of a patient's body weight, for example, during gait therapy, gait training, or the like. The support system 3900 can be movably coupled to a support track (not shown) that is configured to support the weight of the support system 3900 and the weight of the patient utilizing the support system 3900. The support track can be, for example, similar to or the same as the support track 2050 described above.

[1143] The support system 3900 includes a first coupling portion 3910 and a second coupling portion 3940. The first coupling portion 3910 is configured to movably couple to the support track, as described above. The first coupling portion 3910 includes a first side assembly 3911, a second side assembly 3921, and a base 3930. The first side assembly 3911 includes a set of drive wheels 3912, a set of guide wheels 3913, an outer wall 3914, an inner wall 3915, and a set of couplers 3916. The couplers 3916 are configured to extend between the outer wall 3914 and the inner wall 3915 to couple the outer wall 3914 and the inner wall 3915 together. The outer wall 3914 is further coupled to the base 3930. The drive wheels 3912 are arranged into an upper set of drive wheels 3912 configured to be disposed on a top surface of the support track, and a lower set of drive wheels 3912 configured to be disposed on a bottom surface of the support track. In this manner, the drive wheels 3912 roll along a horizontal portion of the support track (not shown in FIGS. 35 and 36). The guide wheels 3913 are arranged in a perpendicular orientation relative to the drive wheels 3912 and are configured to roll along a vertical portion of the support track (e.g., as similarly described above with reference to FIG. 23.

[1144] The second side assembly 3921 includes a set of drive wheels 3922, a set of guide wheels 3923, an outer wall 3924, an inner wall 3925, and a set of couplers 3916. The first side assembly 3911 and the second side assembly 3921 are substantially the same and arranged in a mirrored configuration. Therefore, the second side assembly 3921 is not described in further detail herein and should be considered the same as the first side assembly 3921 unless explicitly described.

[1145] As shown in FIG. 36, the second coupling portion 3940 includes a cylinder 3941, an attachment member 3945, a piston 3950, and an energy storage member 3960. The cylinder 3941 is coupled to the base 3930 and is configured to house the spring 3960 and at least a portion of the piston 3950. More specifically, the cylinder 3941 defines an opening 3942 at an end portion, opposite the base 3930, through which at least a first end portion 3951 of the piston 3950 can move. The piston 3950 further has a second end portion 3952 that is in contact with a portion of the energy storage member 3960. The energy storage

Aretech LLC - Exhibit 1002, Page 00064

member 3960 can be any suitable device configured to move between a first configuration having lower potential energy and a second configuration having a higher potential energy. For example, as shown in FIG. 36, the energy storage member 3960 can be a spring that is compressed when moved to its second configuration.

[1146] The attachment mechanism 3945 includes a first coupling portion 3946 that is coupled to the first end portion 3951 of the piston 3950, and a second coupling portion 3947 that can be coupled to, for example, a harness worn by a patient. As shown in FIGS. 35 and 36, the second end portion 3952 can be an annular protrusion. In this manner, a portion of the harness such as a hook or the like can be at least partially disposed within the opening defined by the second coupling portion 3947 to couple the patient to the support system 3900.

[1147] In use, the patient can be coupled to the support system 3900 (as described above) such that the support system 3900 supports at least a portion of the body weight of the patient. In this manner, the patient can walk along a path associated with the support track (not shown). With the support system 3900 coupled to the patient, the movement of the patient moves the support system 3900 along the support track. Similarly stated, the patient pulls the support system 3900 along the support track. In some instances, a patient may stumble while walking, thereby increasing the amount of force exerted on the support system 3900. In such instances, the increase in force exerted on the support system 3900 can be sufficient to cause the energy storage member 3960 to move from its first configuration towards its second configuration (e.g., compress). In this manner, the piston 3950 can move relative to the cylinder 3941 and the energy storage member 3960 can absorb at least a portion of the increase in the force exerted on the support structure 3900. Thus, if the patient stumbles the support system 3900 can dampen the impulse experienced by the patient that would otherwise result in known passive support systems 3900.

[1148] Although the support system 3900 is described as including an energy storage member, in other embodiments, the support system 3900 need not include the energy storage member. For example, in some embodiments, the support system 3900 can be coupled to, for example, the attachment mechanism 2800 described above with reference to FIG. 34. In this manner, the attachment mechanism 2800 can be used to dampen at least a portion of a change in force exerted on the support system 3900. For example, in some instances a patient coupled to the support system 3900 may stumble, thereby increasing the force exerted on the support system 3900. In such instances, the increase in force can move the first arm 2820 towards the second arm 2840 (see e.g., FIG. 34), thereby moving the energy storage member

Aretech LLC - Exhibit 1002, Page 00065

2850 towards their second configuration. Thus, at least a portion of the increase in force can be absorbed by the attachment mechanism 2800.

[1149] Although not shown in FIG. 2-36, one or more active support system (e.g., support system 2000) and/or one or more passive support system (e.g., 3900) can be disposed about a similar support track and can be utilized at the same time. For example, FIG. 37 is a schematic illustration of a support system 4000 according to an embodiment. The support system 4000 includes a support track 4050, a first support member 4100, and a second support member 4900. The support system 4000 can be used to support at least a portion of the body weight of one or more patients during, for example, gait therapy (e.g., after injury), gait training (e.g., low gravity simulation), or the like. The support track 4050 is configured to support the weight of the first support member 4100 and the second support member 4900 and the weight of the patient utilizing the first support member 4100 and/or the second support member 4900.

[1150] As shown in FIG. 37, the support track 4050 can form a closed loop track. The support track 4050 can be similar to or the same as the support track 2050, described above with reference to FIGS. 2 and 3; the first support member 4100 can be similar to or the same as the trolley 2100, described above with reference to FIGS. 2-33; and the second support member 4900 can be similar to or the same as the support system 3900, described above with reference to FIGS. 35 and 36. In this manner, the first support member 4100 and the second support member 4900 can be hung from the support track 4050, as described in detail above.

[1151] In some embodiments, a first patient (not shown in FIG. 37) can be coupled to the first support member 4100 and a second patient (not shown in FIG. 37) can be coupled to the second support member 4900 with both being suspended from the support tack 4050. As shown in FIG. 37, the first support member 4100 can move in the direction of the arrow **A** in response to a movement of the first patient coupled thereto. Similarly, the second support member 4900 can be moved in the direction of the arrow **B** in response to a movement of the second patient coupled thereto. Expanding further, the first support member 4100 can be an active support member and can be configured to move in accordance with the movement of the first patient, as described in detail above. Conversely, the second support member 4900 can be a passive support member and can be moved by the second patient coupled thereto, as described in detail above.

Aretech LLC - Exhibit 1002, Page 00066

[1152] Although not shown in FIG. 37 the first support member 4100 and/or the second support member 4900 can include a collision avoidance system that is configured to prevent a collision of the first support member 4100 and the second support member 4900. For example, in some embodiments, the first support member 4100 can include a sensor (e.g., an ultrasonic proximity sensor or the like) configured to sense the relative position of the first support member 4100 relative to the second support member 4900. Thus, when the distance between the first support member 4100 and the second support member 4900 approaches a predetermined threshold (e.g., a minimum distance), an electronic system (e.g., similar to or the same as the electronic system 2700 described above) included in the first support member 4100 can send a signal to a drive system (not shown) to increase or decrease a rotational velocity of one or more drive wheels. Thus, a collision of the first support member 4100 and the second support member 4900 can be avoided.

[1153] Although the support system 4000 is shown and described as including the first support member 4100 and the second support member 4900, in other embodiments, the support system 4000 can include any suitable number of support members movably coupled to the support track 4050. Moreover, any combination of active support members and passive support members can be included in the support system 4000. For example, while shown as including an active support member (e.g., the first support member 4100) and a passive support member (e.g., the second support member 4900), in other embodiments, the support system 4000 can include two active support members, two passive support members, two active support members and two passive support members, or any other suitable combination thereof.

[1154] Some embodiments described herein relate to a computer storage product with a non-transitory computer-readable medium (also can be referred to as a non-transitory processor-readable medium) having instructions or computer code thereon for performing various computer-implemented operations. The computer-readable medium (or processor-readable medium) is non-transitory in the sense that it does not include transitory propagating signals (e.g., propagating electromagnetic wave carrying information on a transmission medium such as space or a cable). The media and computer code (also referred to herein as code) may be those designed and constructed for the specific purpose or purposes. Examples of non-transitory computer-readable media include, but are not limited to: magnetic storage media such as hard disks, optical storage media such as Compact Disc/Digital Video Discs (CD/DVDs), Compact Disc-Read Only Memories (CD-ROMs), magneto-optical storage media such as optical disks, carrier wave signal processing modules, and hardware devices

Aretech LLC - Exhibit 1002, Page 00067

that are specially configured to store and execute program code, such as Application-Specific Integrated Circuits (ASICs), Programmable Logic Devices (PLDs), Read-Only Memory (ROM) and Random-Access Memory (RAM) devices. Other embodiments described herein relate to a computer program product, which can include, for example, the instructions and/or computer code discussed herein.

[1155] Examples of computer code include, but are not limited to, micro-code or micro-instructions, machine instructions, such as produced by a compiler, code used to produce a web service, and files containing higher-level instructions that are executed by a computer using an interpreter. For example, embodiments may be implemented using imperative programming languages (e.g., C, FORTRAN, etc.), functional programming languages (Haskell, Erlang, etc.), logical programming languages (e.g., Prolog), object-oriented programming languages (e.g., Java, C++, etc.), or other programming languages and/or other development tools. Additional examples of computer code include, but are not limited to, control signals, encrypted code, and compressed code.

[1156] While various embodiments have been described above, it should be understood that they have been presented by way of example only, and not limitation, and as such, various changes in form and/or detail may be made. For example, while the attachment mechanism 2800 is described above with reference to FIG. 34 as including energy storage members 2850, in other embodiments, an attachment mechanism need not include an energy storage member. In such embodiments, the attachment mechanism can be coupled to, for example, the trolley 2100 and the further coupled to a harness or the like worn by a patient. In such embodiments, the trolley 2100 can function in a substantially similar manner as described above.

[1157] Although the trolley 2100 is described above with reference to FIGS. 2-33 as including a motorized drive system 2300 and an active support mechanism 2500, in other embodiments, a trolley can include either a motorized drive system or an active support mechanism. Similarly stated, the drive system 2300 and the support mechanism 2500 can be mutually exclusive and can independently function in a similar manner to those described above.

[1158] Any portion of the apparatus and/or methods described herein may be combined in any suitable combination, unless explicitly expressed otherwise. For example, in some embodiments, the patient support mechanism 2500 of the trolley 2100 included in the support

Aretech LLC - Exhibit 1002, Page 00068

system 2000 can be replaced with a system similar to the support system 3900. In such embodiments, a cylinder, a piston, and an energy storage member can extend, for example, from the base 2210 of the housing 2200 of the trolley 2100. Expanding further, the kinetic and potential energy of the energy storage member (e.g., storage member 3960) could be actively controlled via a feedback system similar to the system described above with reference to the trolley 2100. For example, the energy storage member 3960 could be compressed air, the pressure of which could be controlled in response to a force exerted on the piston.

[1159] Where methods and/or schematics described above indicate certain events and/or flow patterns occurring in certain order, the ordering of certain events and/or flow patterns may be modified. Additionally certain events may be performed concurrently in parallel processes when possible, as well as performed sequentially.

Aretech LLC - Exhibit 1002, Page 00069

What is claimed is:

1. An apparatus, comprising:

a trolley configured to be movably suspended from a track,

a powered conductor operatively coupled to the track, the trolley configured to be electrically coupled to the powered conductor;

at least one patient attachment coupled to the trolley, the patient support assembly configured to support a single patient; and

a control system coupled to at least one of the trolley or the powered conductor.

2. The apparatus of claim 1, wherein the patient attachment includes one of a passive coupling and an active coupling configured to be coupled to a patient harness.

3. The apparatus of claim 1, wherein the trolley includes a patient support system, the patient support system configured to actively support a patient.

4. The apparatus of claim 1, wherein the trolley includes a drive assembly and a torque transfer assembly, the drive assembly and the torque transfer assembly being driven simultaneously.

5. The apparatus of claim 1, the trolley including a plurality of wheels, the wheels disposed above the drive assembly when in an operative configuration.

6. The apparatus of claim 1, the trolley including a plurality of wheels, the wheels disposed above at least a portion of the track.

7. The apparatus of claim 1, wherein the trolley is configured to be powered only from the powered conductor.

8. The apparatus of claim 1, wherein the trolley is configured to be moved from a first position at an end of the track and a second position spaced apart from the end of the track.

Aretech LLC - Exhibit 1002, Page 00070

9. A system, comprising:

a closed loop track;

a power conductor coupled to the closed loop track;

an actively controlled trolley configured to be movably suspended from the closed loop track and electrically coupled to the power conductor;

a patient support assembly coupled to the trolley, the patient support assembly configured to dynamically support a body weight of a patient.

10. The system of claim 9, wherein the closed loop track is one of freestanding or suspended.

11. The system of claim 9, wherein the trolley is one trolley from a plurality of trolleys, each trolley from the plurality of trolleys being separately controllable.

12. The system of claim 9, further comprising a control system configured to be in communication with the trolley.

13. The system of claim 9, wherein the patient support assembly is configured to move between a first configuration and a second configuration, in the first configuration, the patient support assembly is supporting a first percentage of the body weight of a patient and in the second configuration the patient support assembly is supporting a second percentage of the body weight of the patient.

14. The system of claim 9, wherein the trolley is controlled by at least one of a wired or wireless remote control.

15. The system of claim 9, wherein the track has an I-beam configuration in cross section.

16. The system of claim 9, wherein the trolley includes a wheel assembly, the wheel assembly configured to be disposed above at least a portion of the closed loop track.

Aretech LLC - Exhibit 1002, Page 00071

17. An apparatus, comprising:

a housing;

a drive element disposed at least partially within the housing;

a wheel assembly coupled to the drive element and disposed at least partially within the housing; and

a patient support assembly coupled to the housing, the patient support assembly configured to dynamically support a body weight of a patient.

18. The apparatus of claim 17, further comprising:

a light source coupled to the housing, the light source configured to project a light path on a surface opposite the housing.

19. The apparatus of claim 17, further comprising:

a light source configured to illuminate a target location on a surface opposite the housing.

20. The apparatus of claim 17, further comprising at least one of a clutch or a brake associated with the drive element configured to inhibit movement of the drive element.

21. The apparatus of claim 17, further comprising a second drive element coupled to the patient support assembly, the second drive element configured to dynamically support the patient.

Aretech LLC - Exhibit 1002, Page 00072

Abstract

A body weight support system includes a trolley, a powered conductor operative coupled to a power supply, and a patient attachment mechanism. The trolley can include a drive system, a control system, and a patient support system. The drive system is movably coupled to a support rail. At least a portion of the control system is physically and electrically coupled to the powered conductor. The patient support mechanism is at least temporarily coupled to the patient attachment mechanism. The control system can control at least a portion of the patient support mechanism based at least in part on a force applied to the patient attachment mechanism.

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Aretech LLC - Exhibit 1002, Page 00073

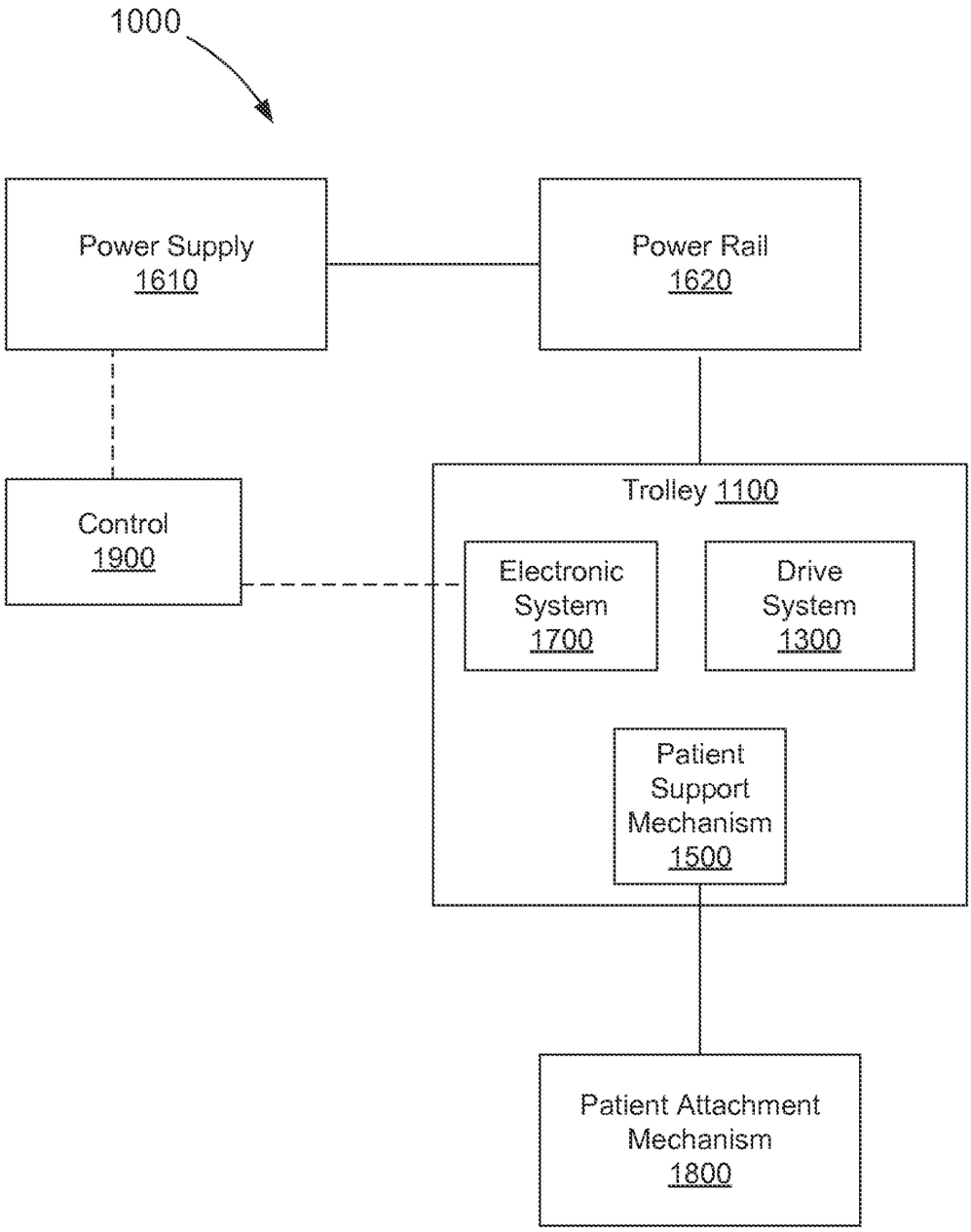

1000
Power Supply
1610
Power Rail
1620
Control
1900
Trolley 1100
Electronic
System
1700
Drive
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1300
Patient
Support
Mechanism
1500
Patient Attachment
Mechanism
1800

FIG. 1

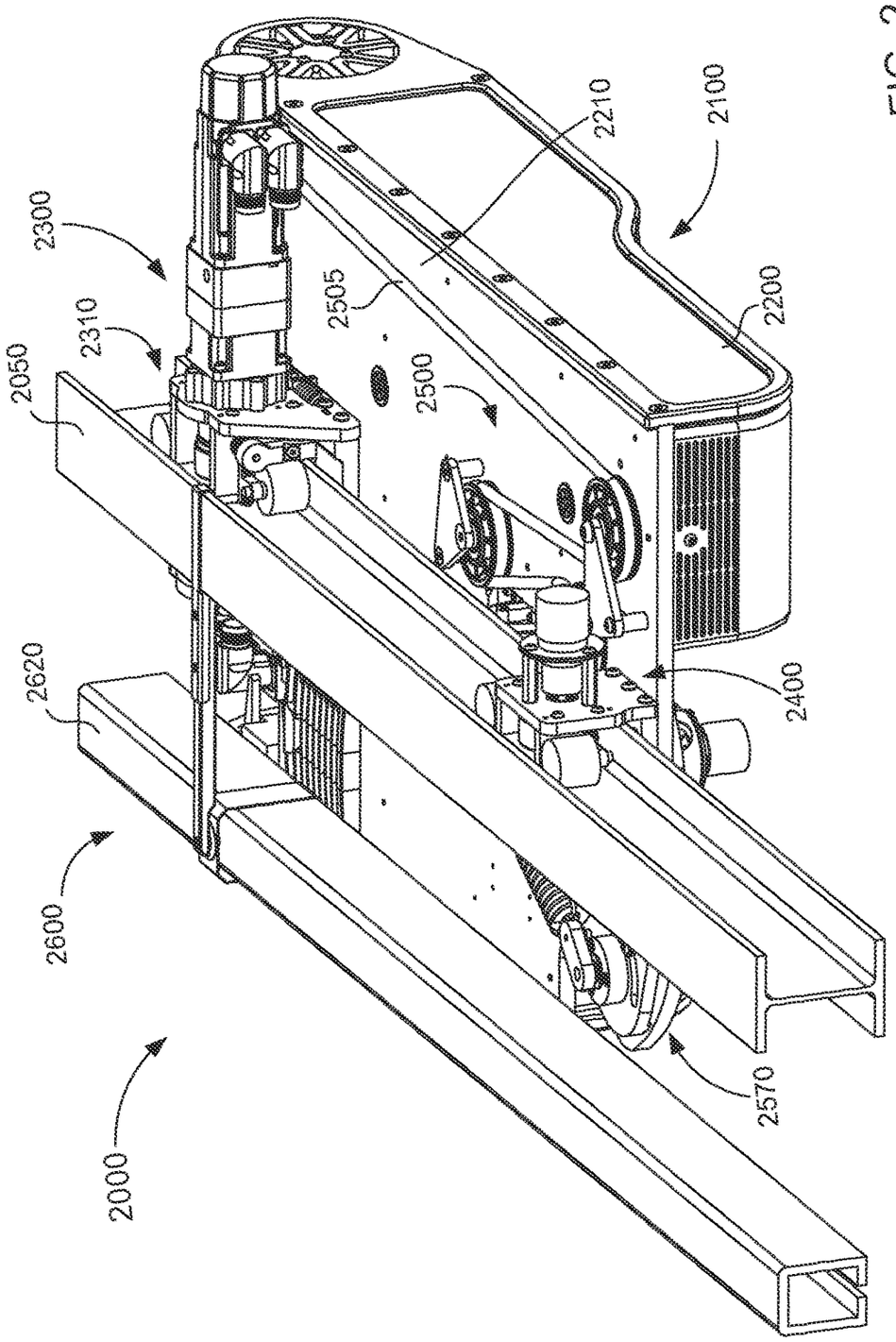

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FIG. 2

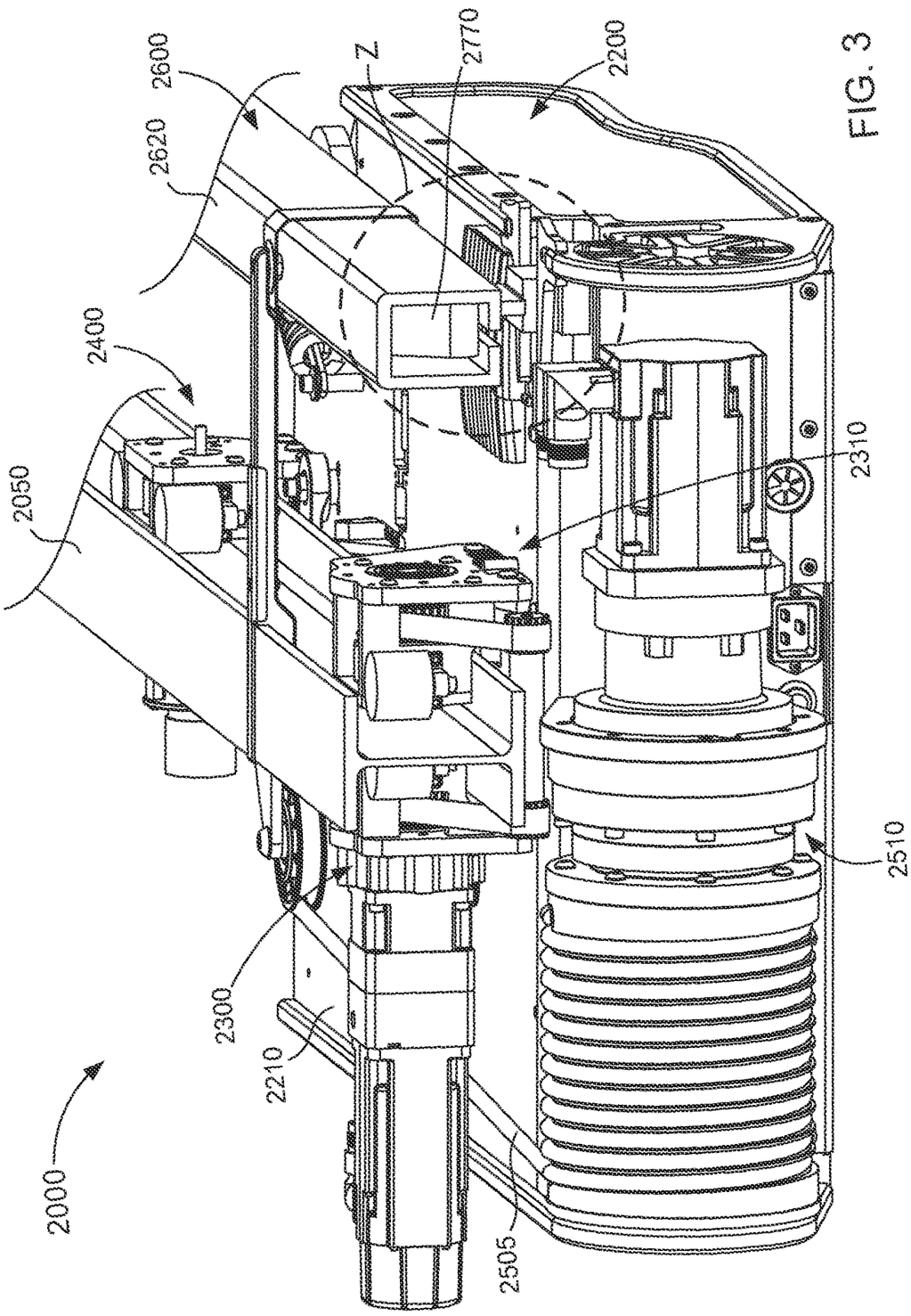


FIG. 3

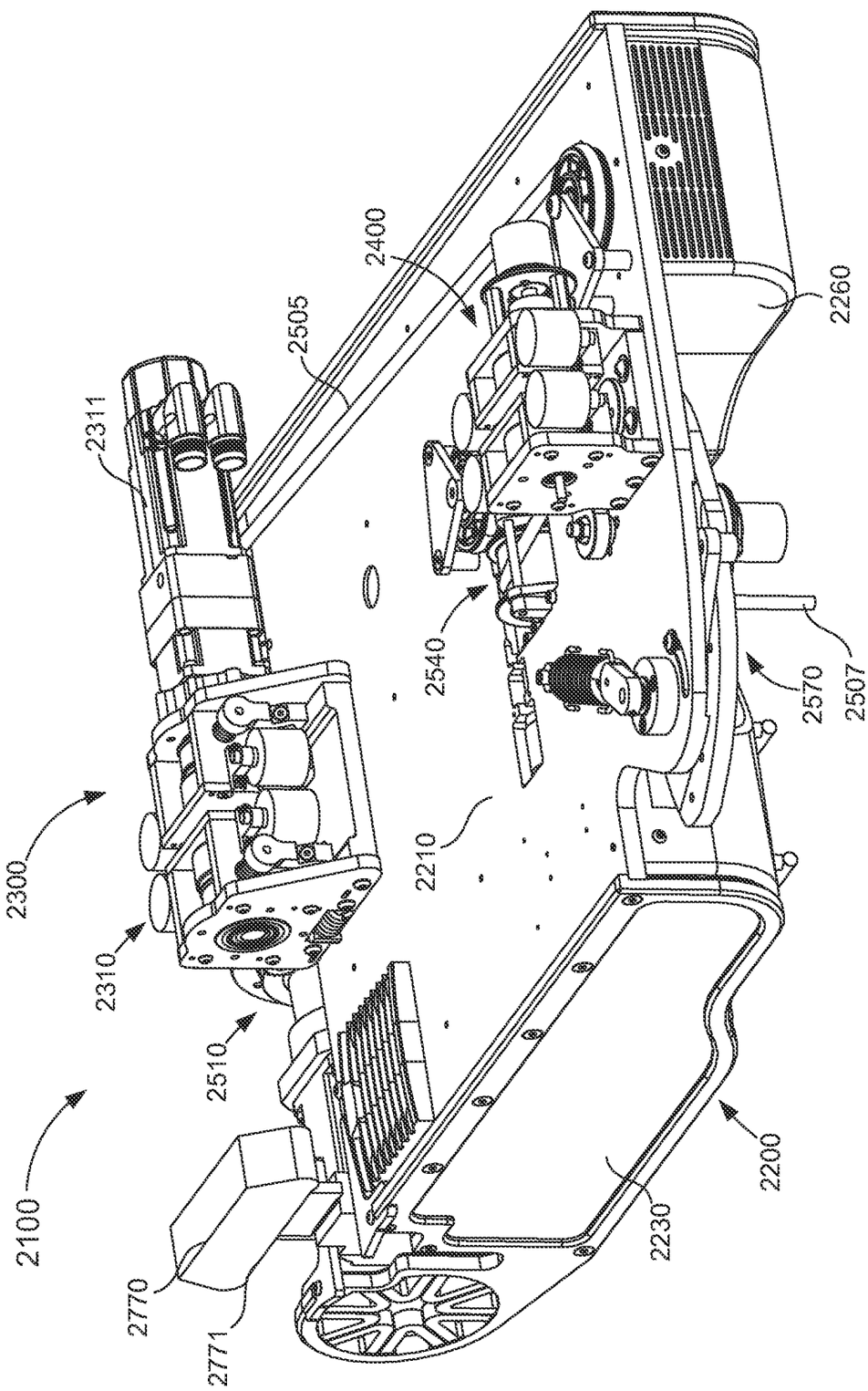


FIG. 4

Aretech LLC - Exhibit 1002, Page 00077

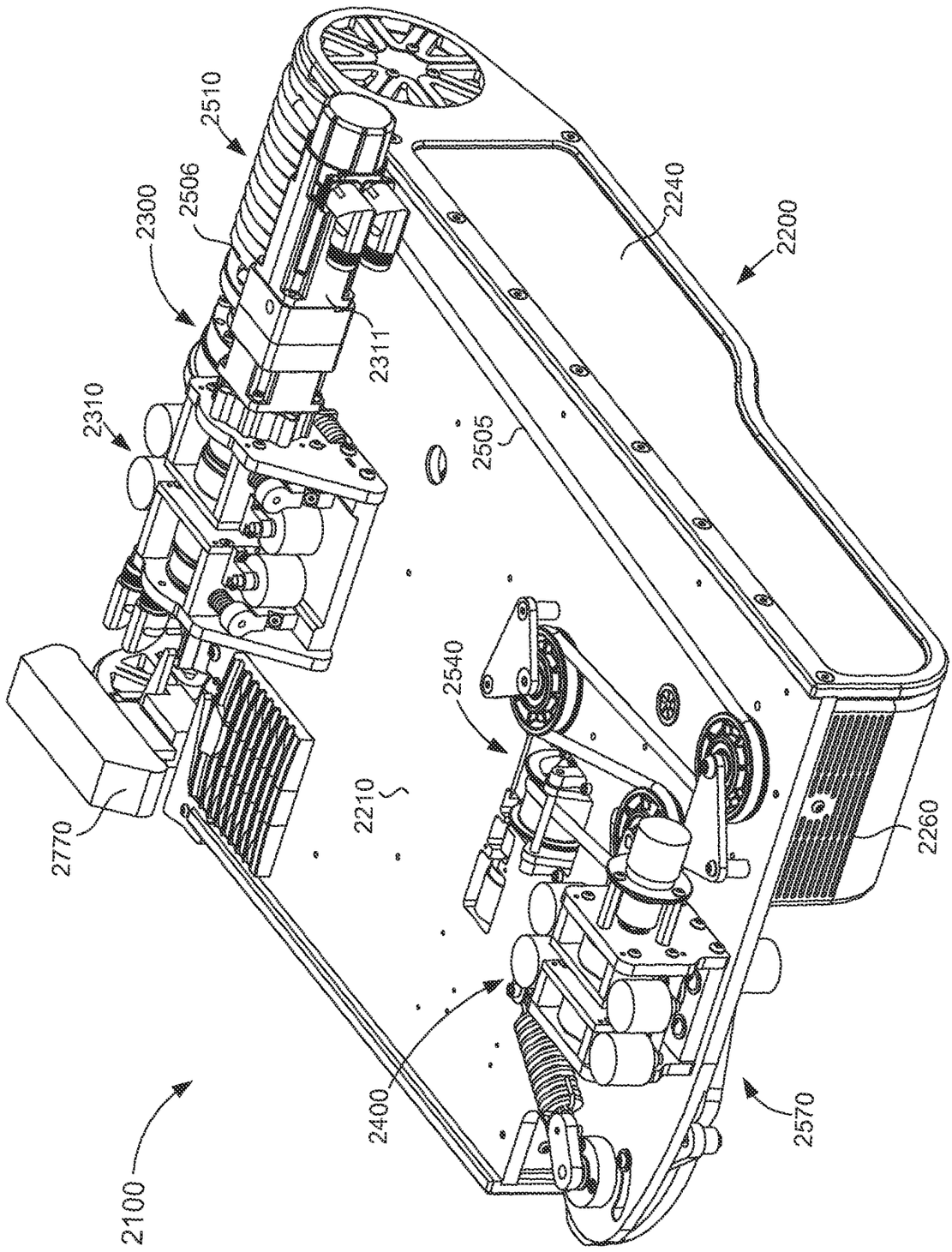

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FIG. 5

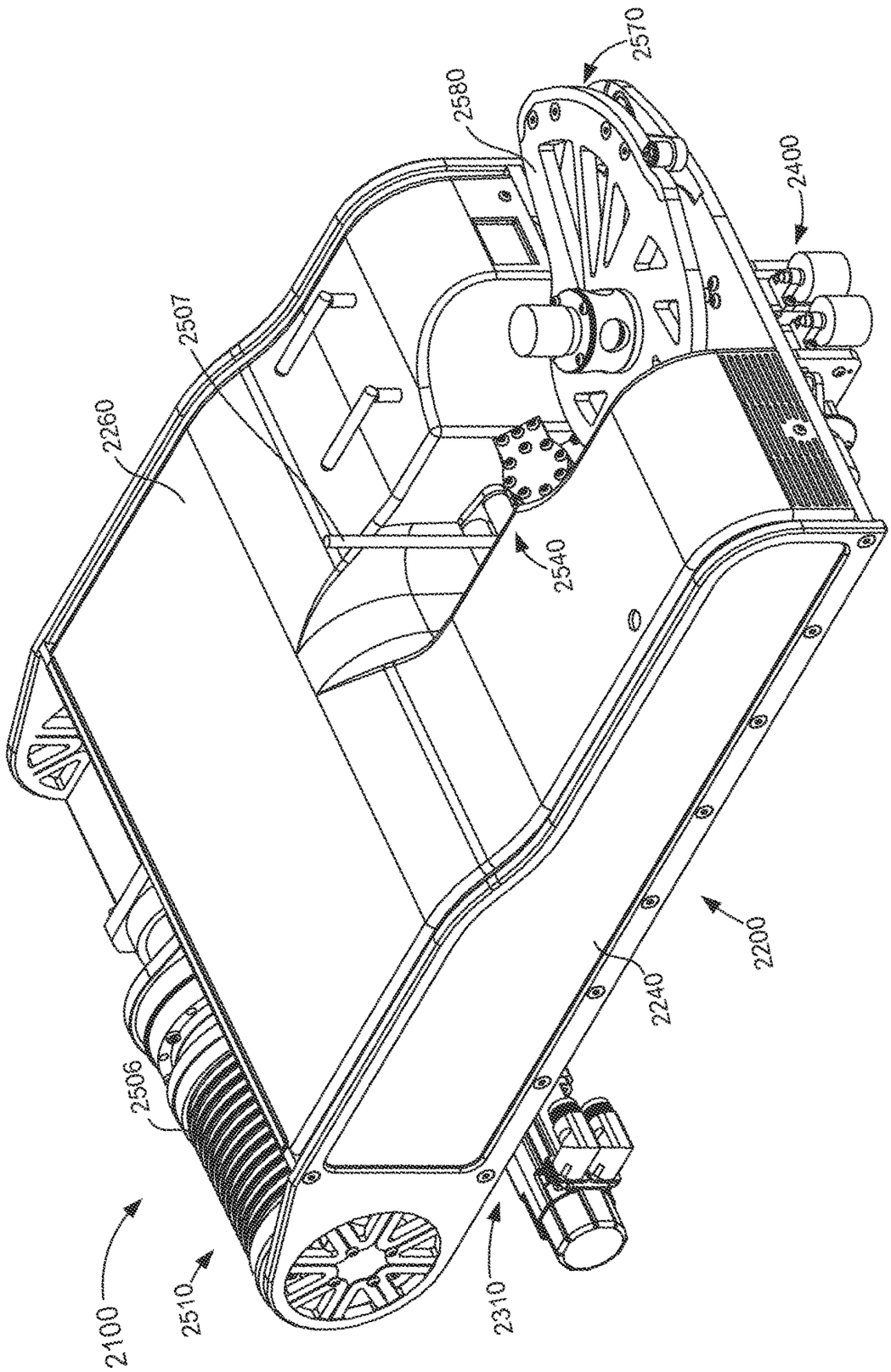


FIG. 6

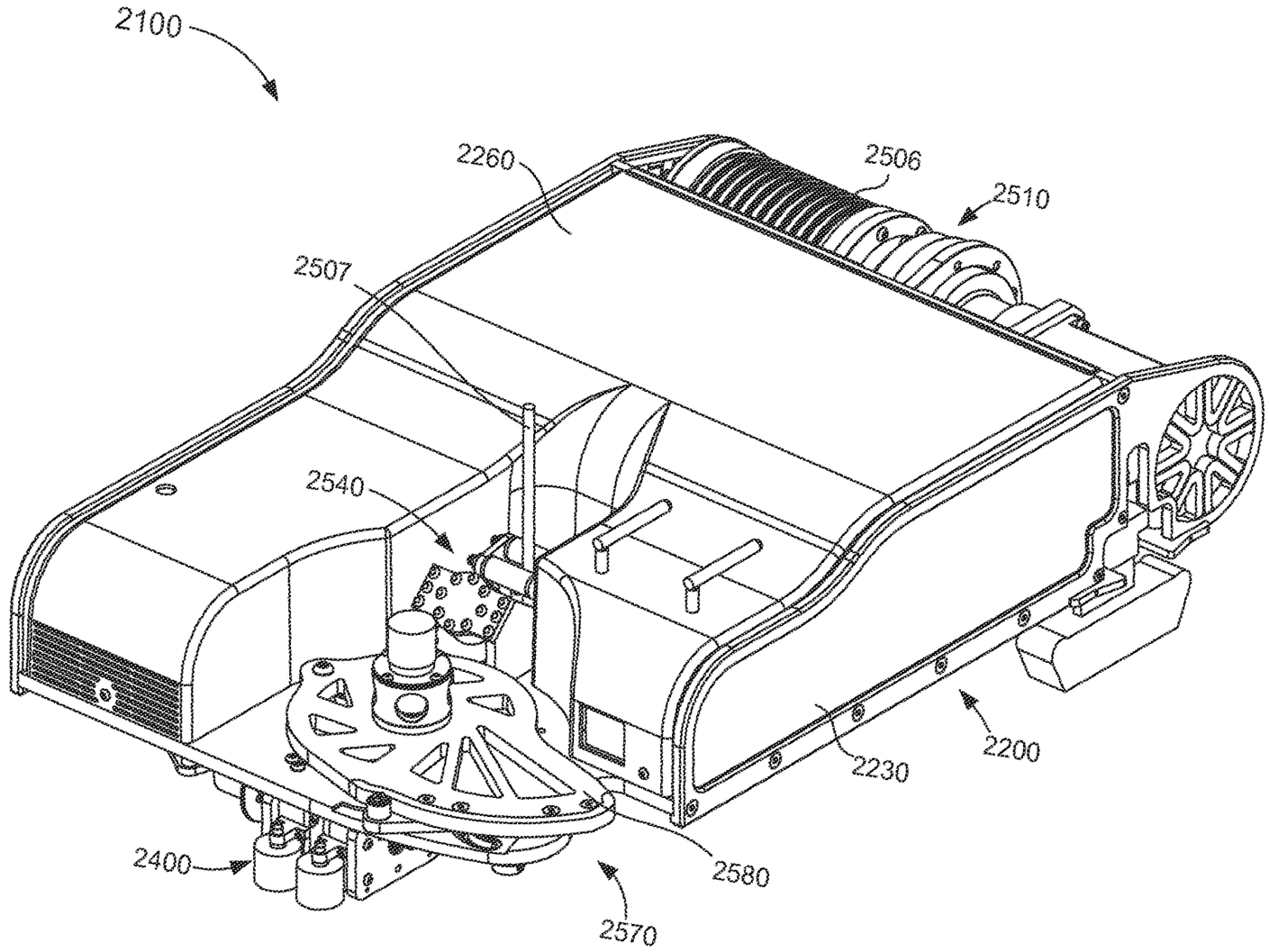


FIG. 7

Aretech LLC - Exhibit 1002, Page 00080

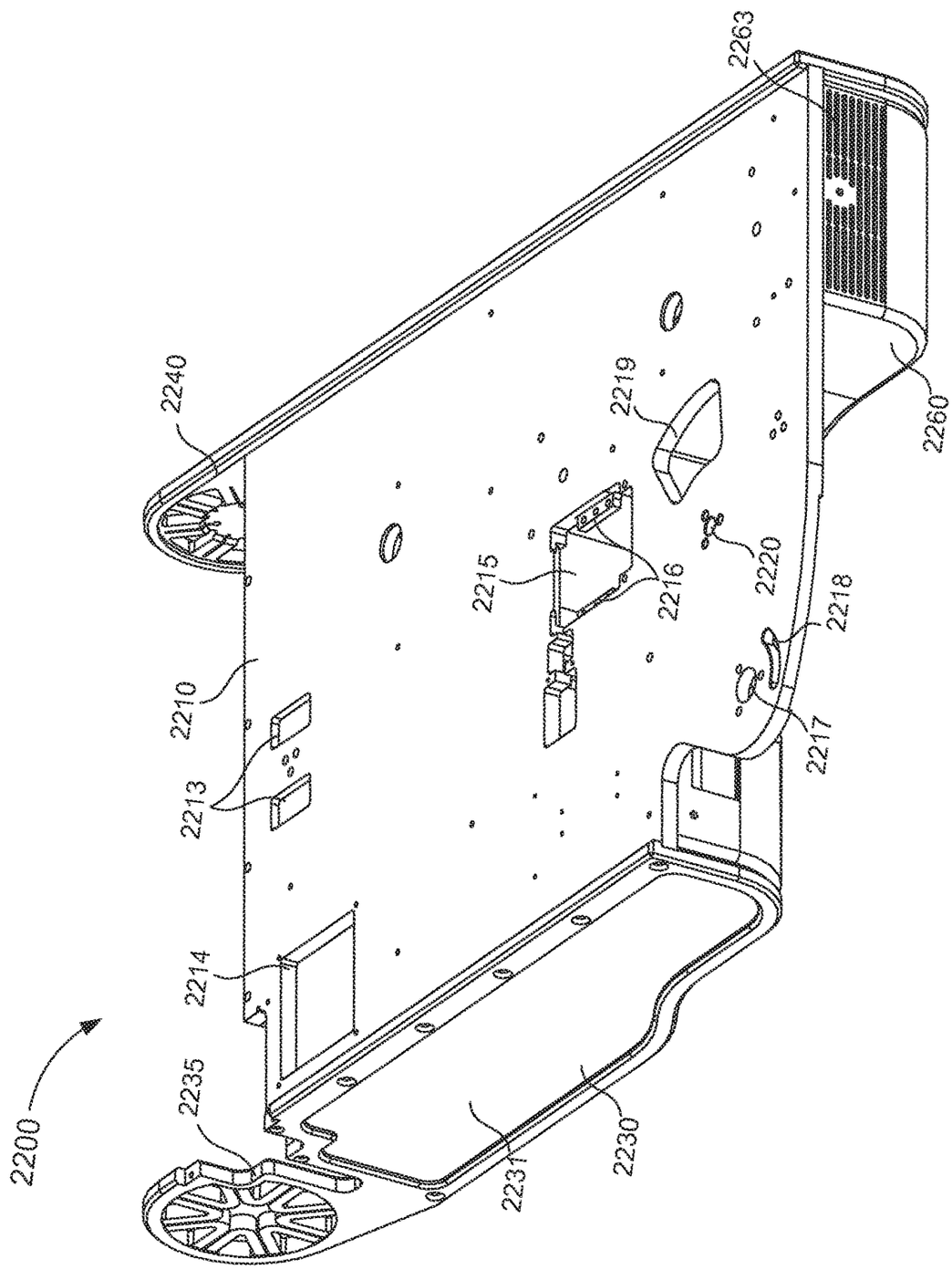

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FIG. 8

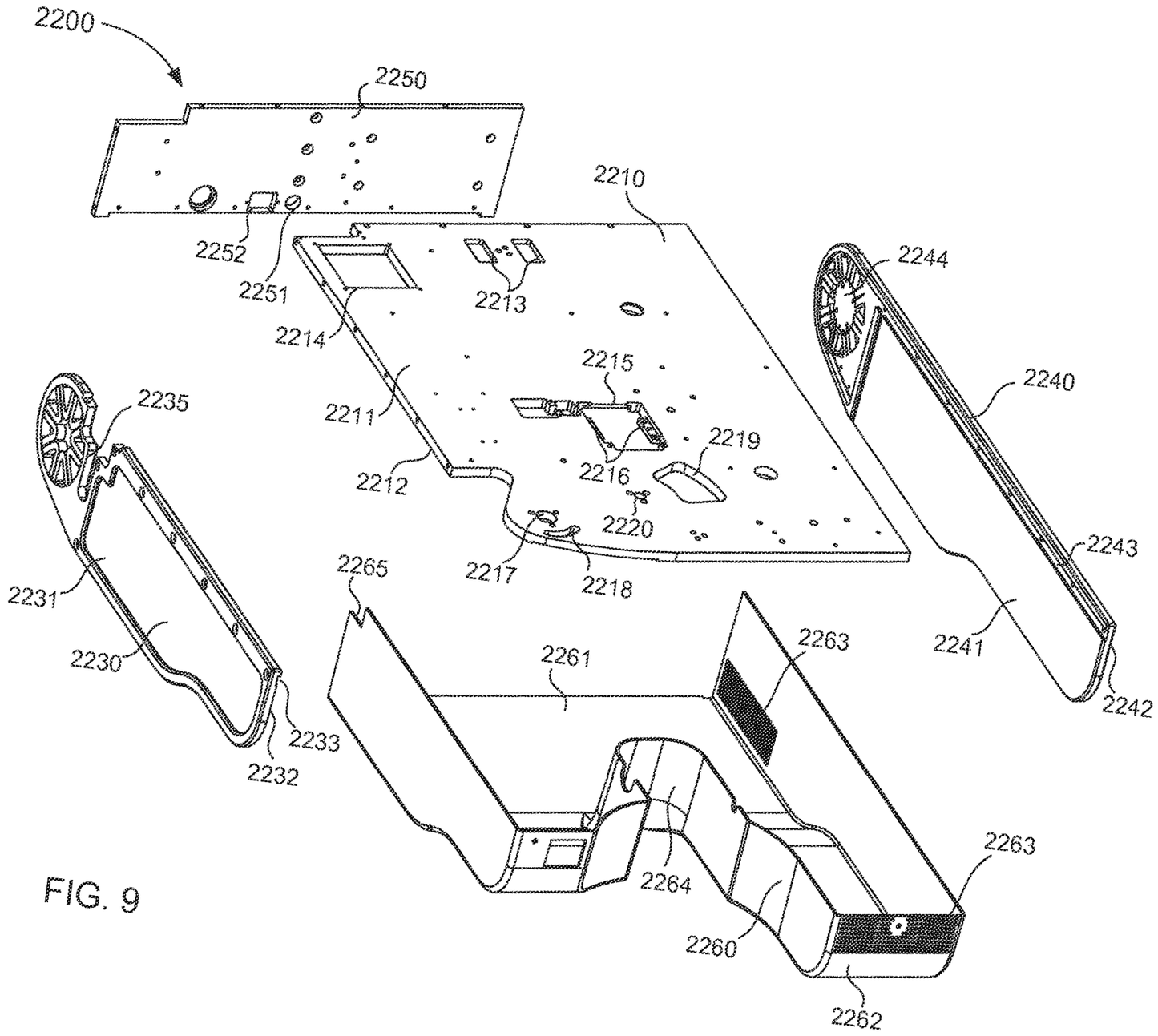


FIG. 9

Aretech LLC - Exhibit 1002, Page 00082

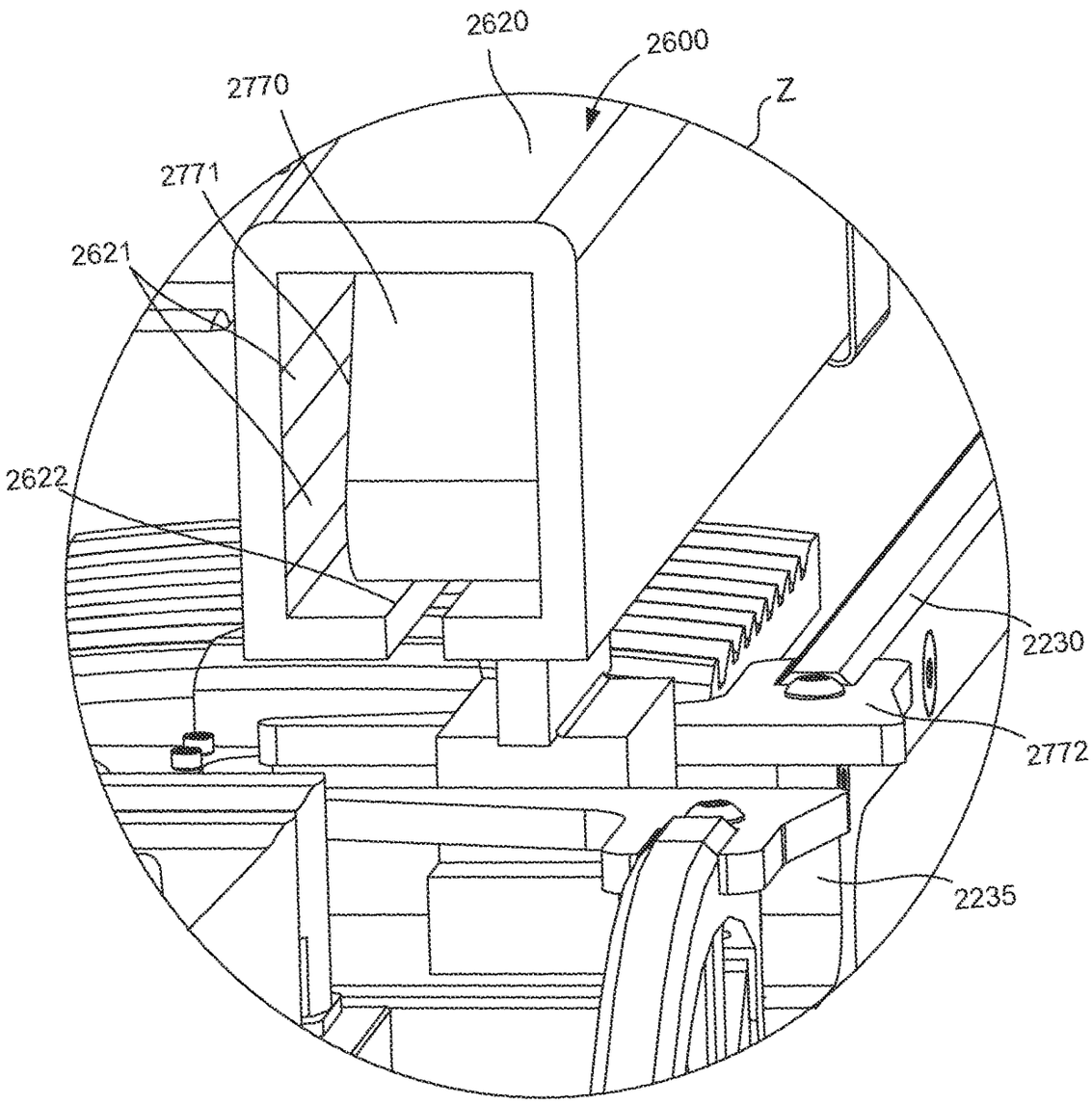


FIG. 10

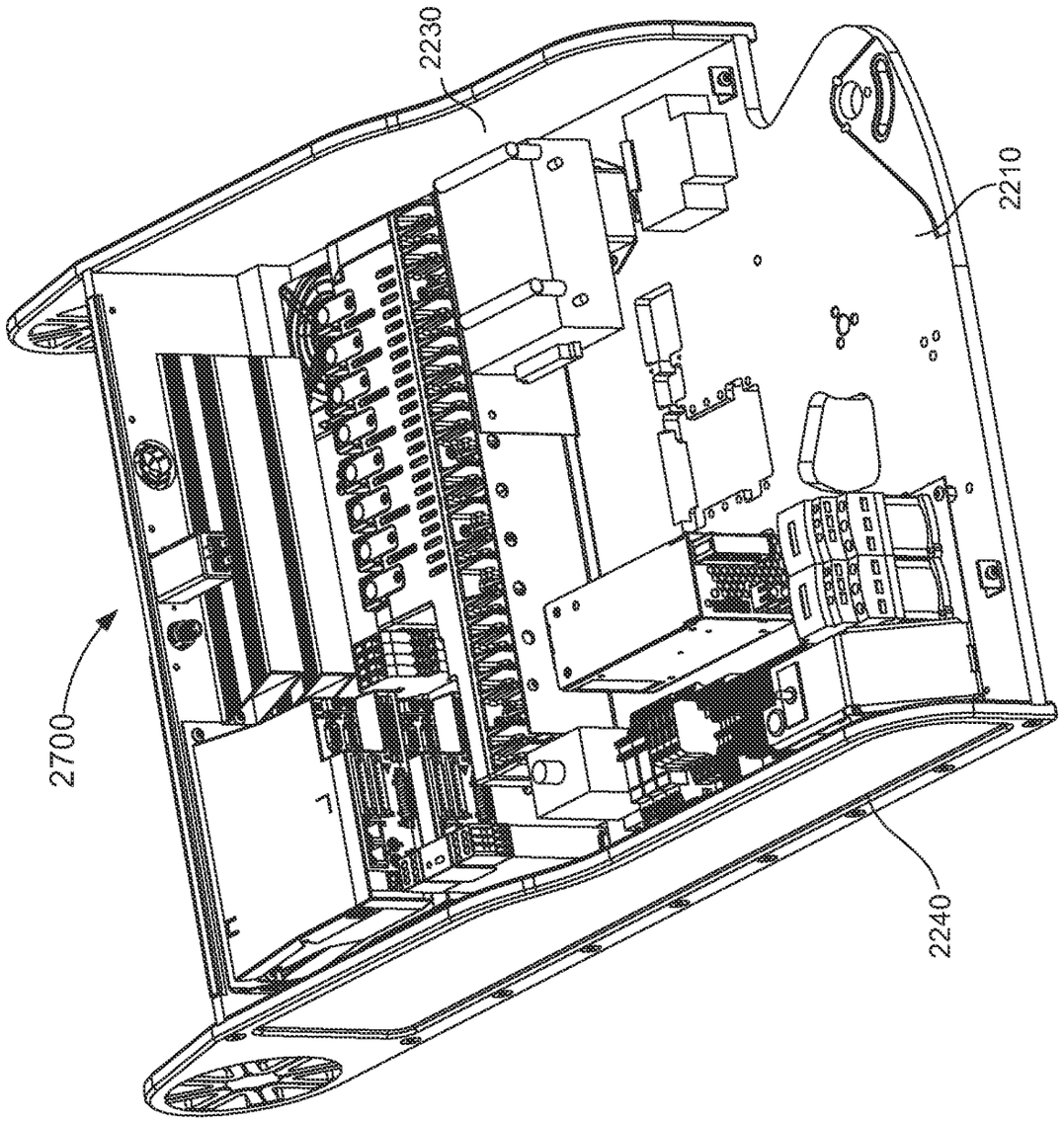


FIG. 11

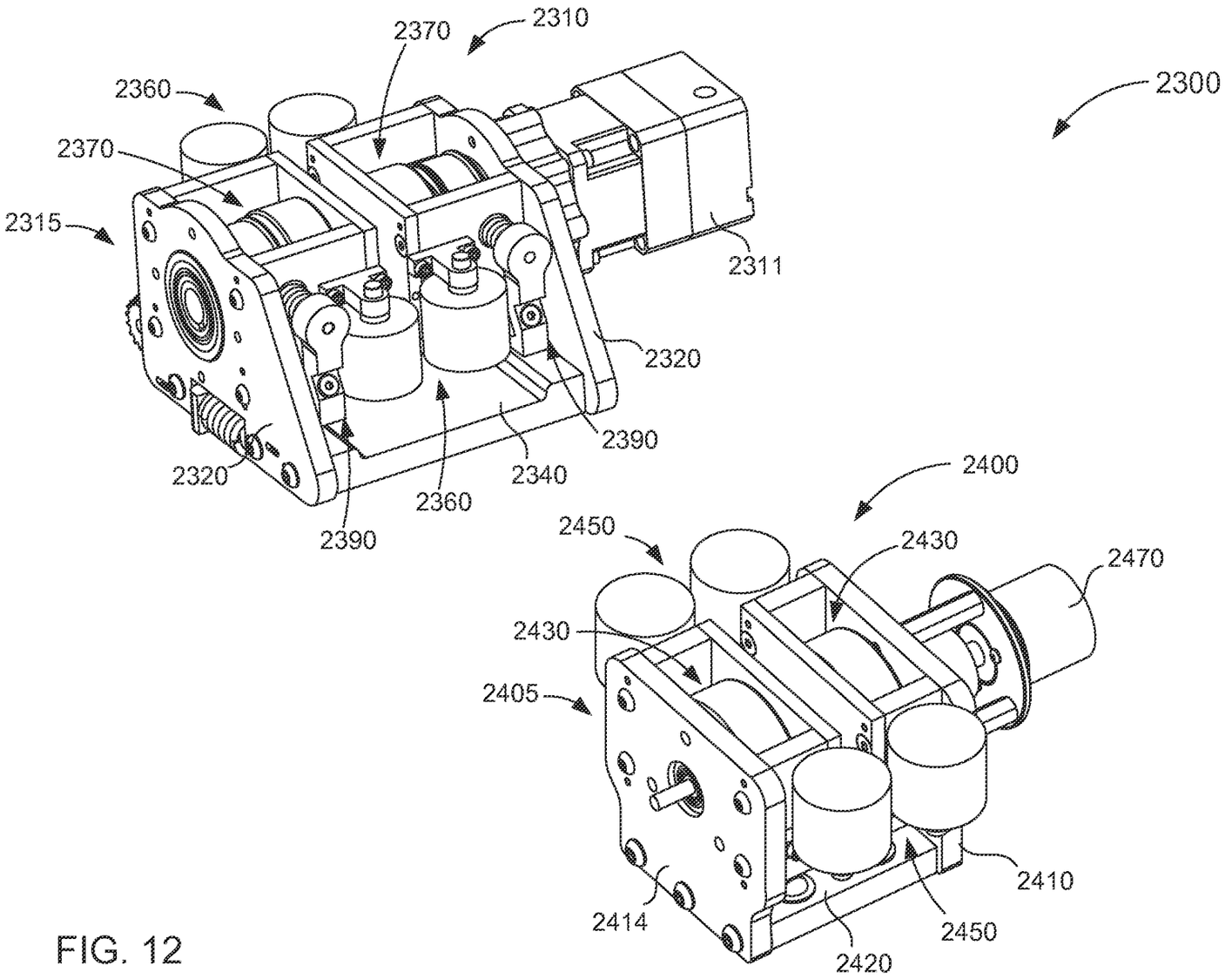


FIG. 12

Aretech LLC - Exhibit 1002, Page 00085

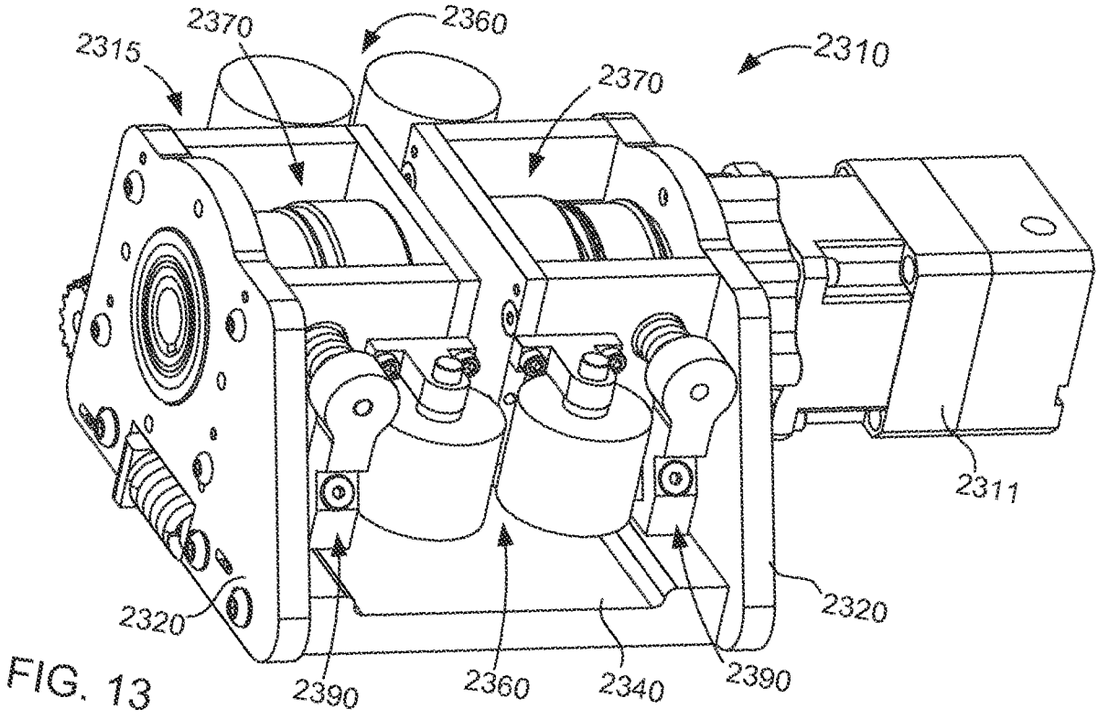

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FIG. 13

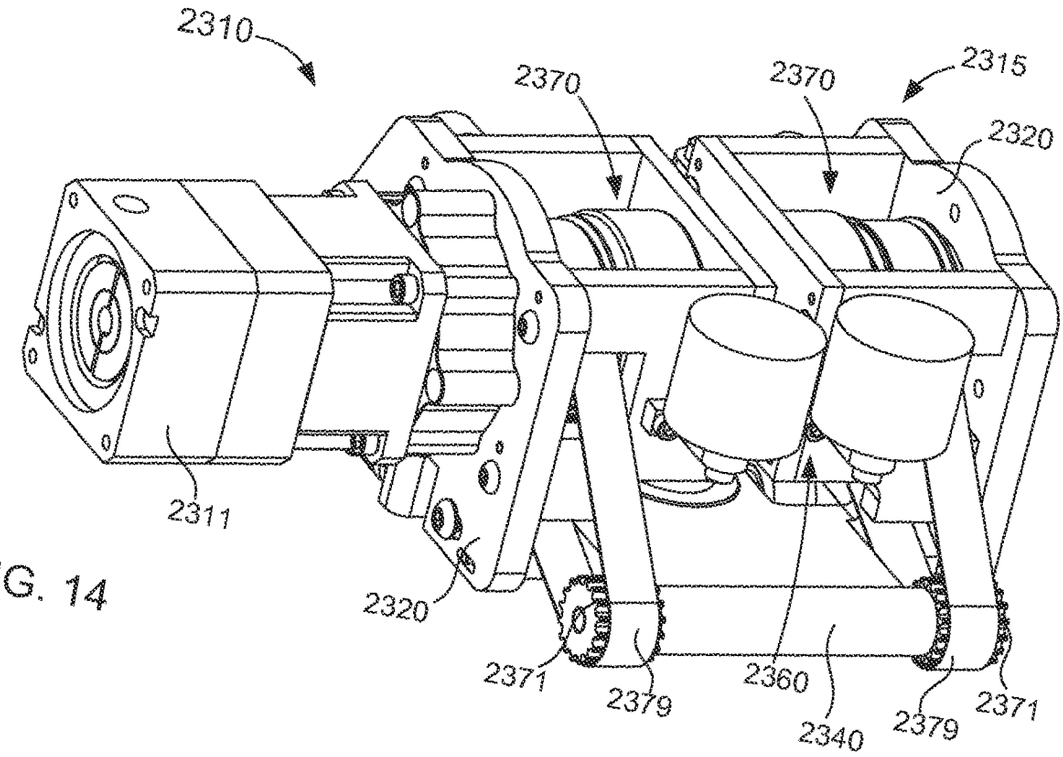

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FIG. 14

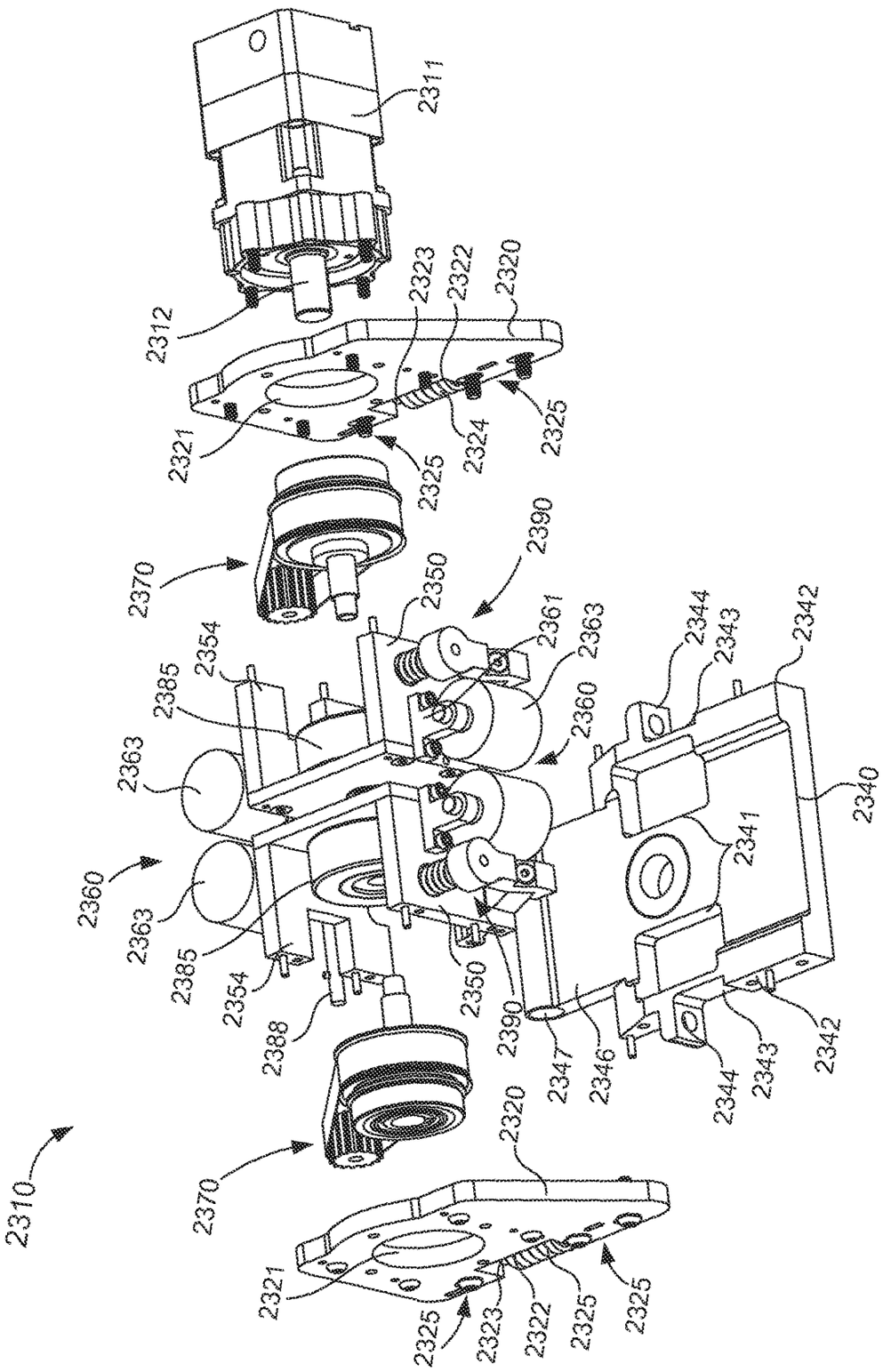

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FIG. 15

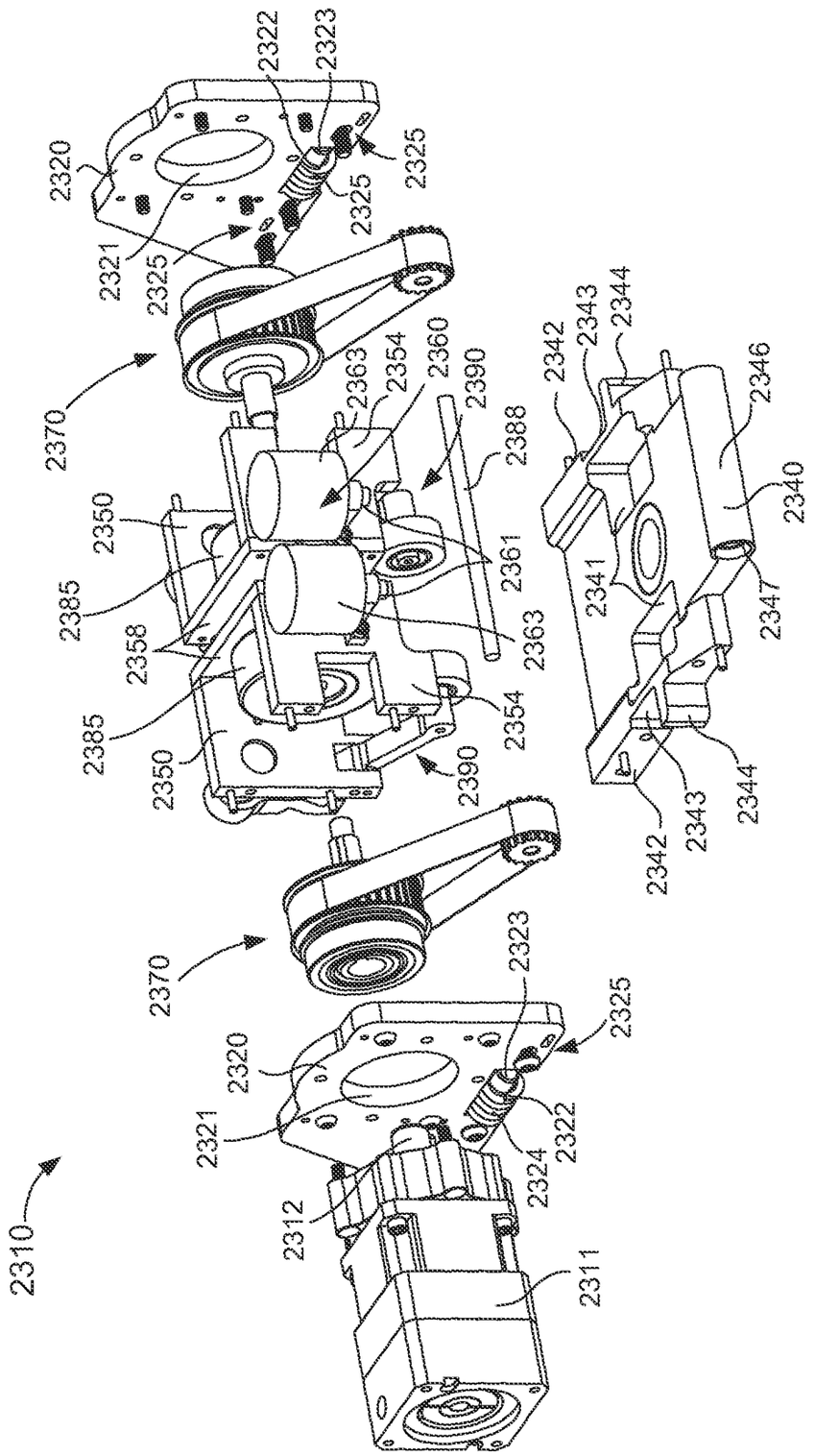

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FIG. 16

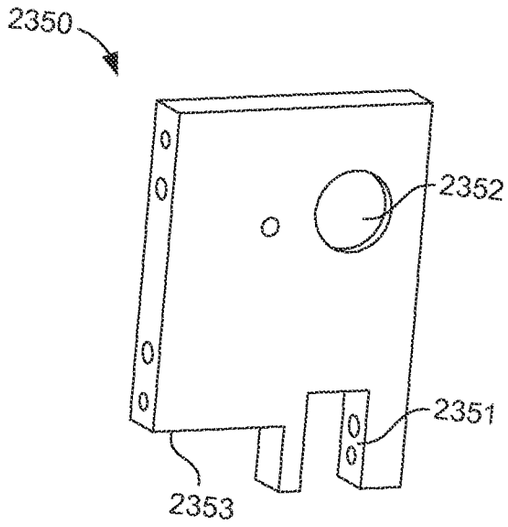


FIG. 17

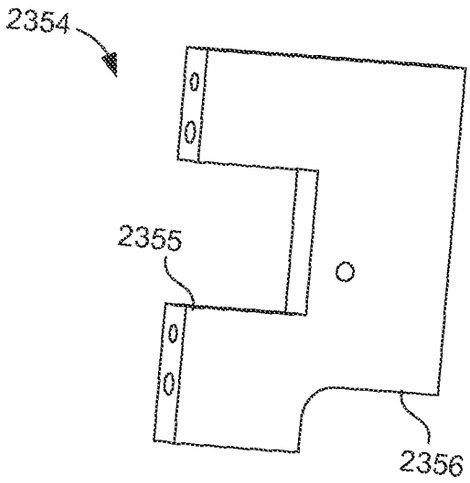


FIG. 18

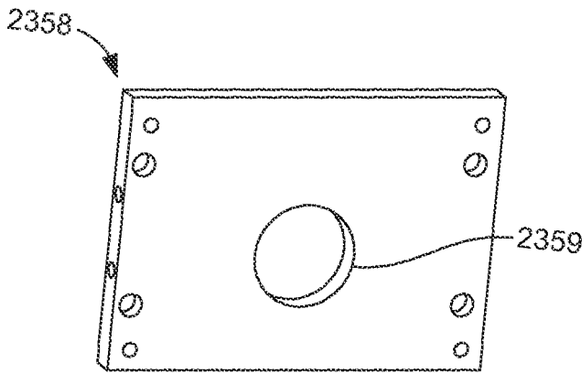


FIG. 19

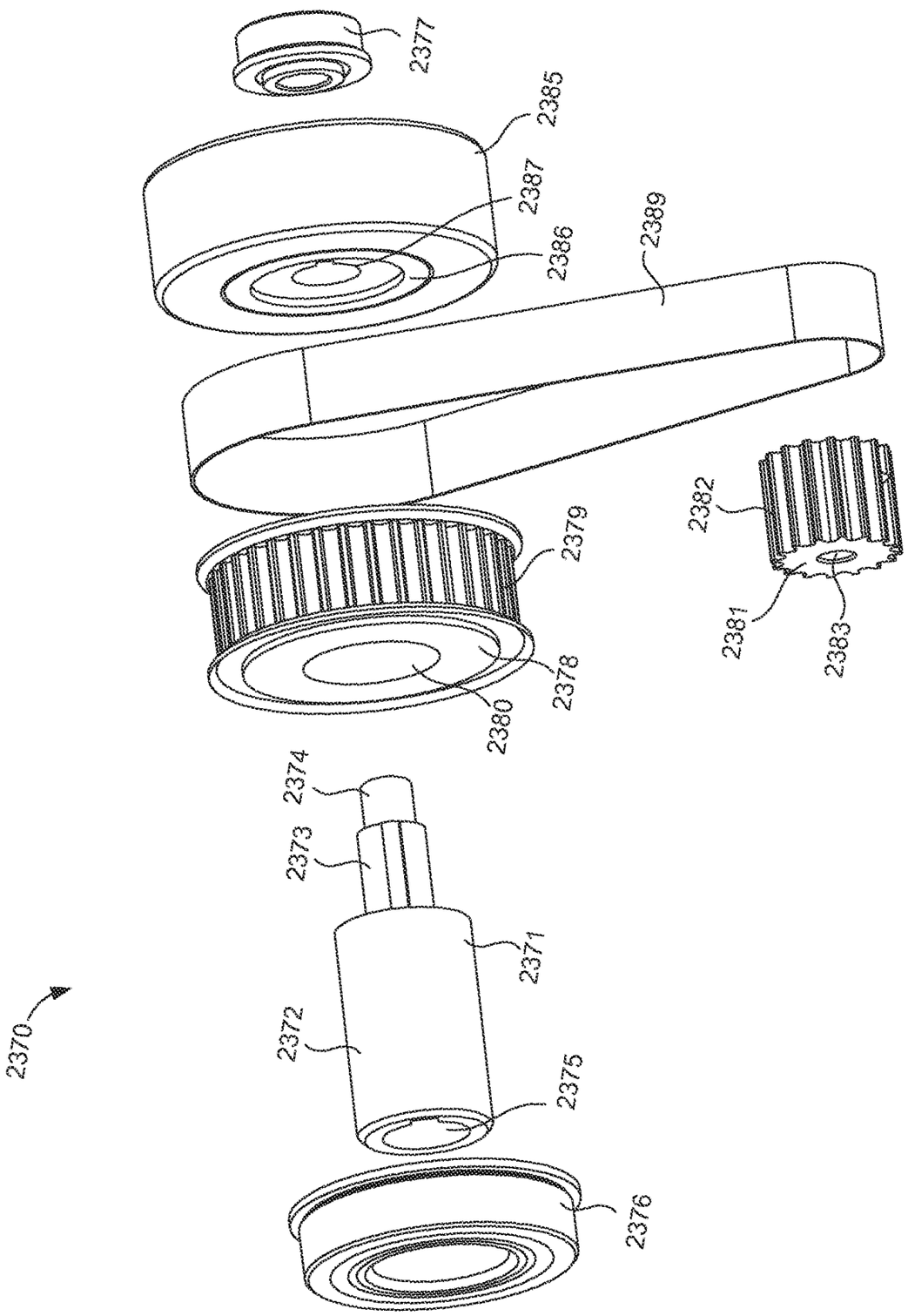

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FIG. 20

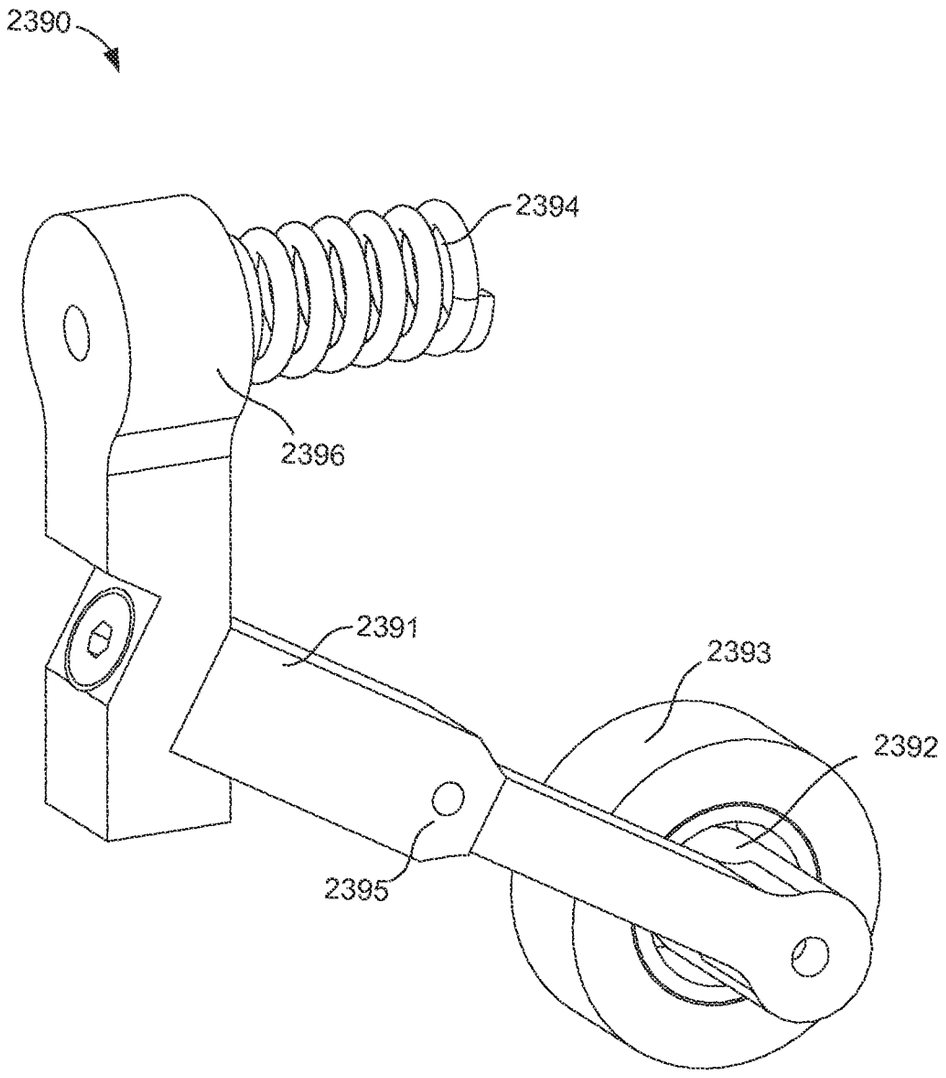


FIG. 21

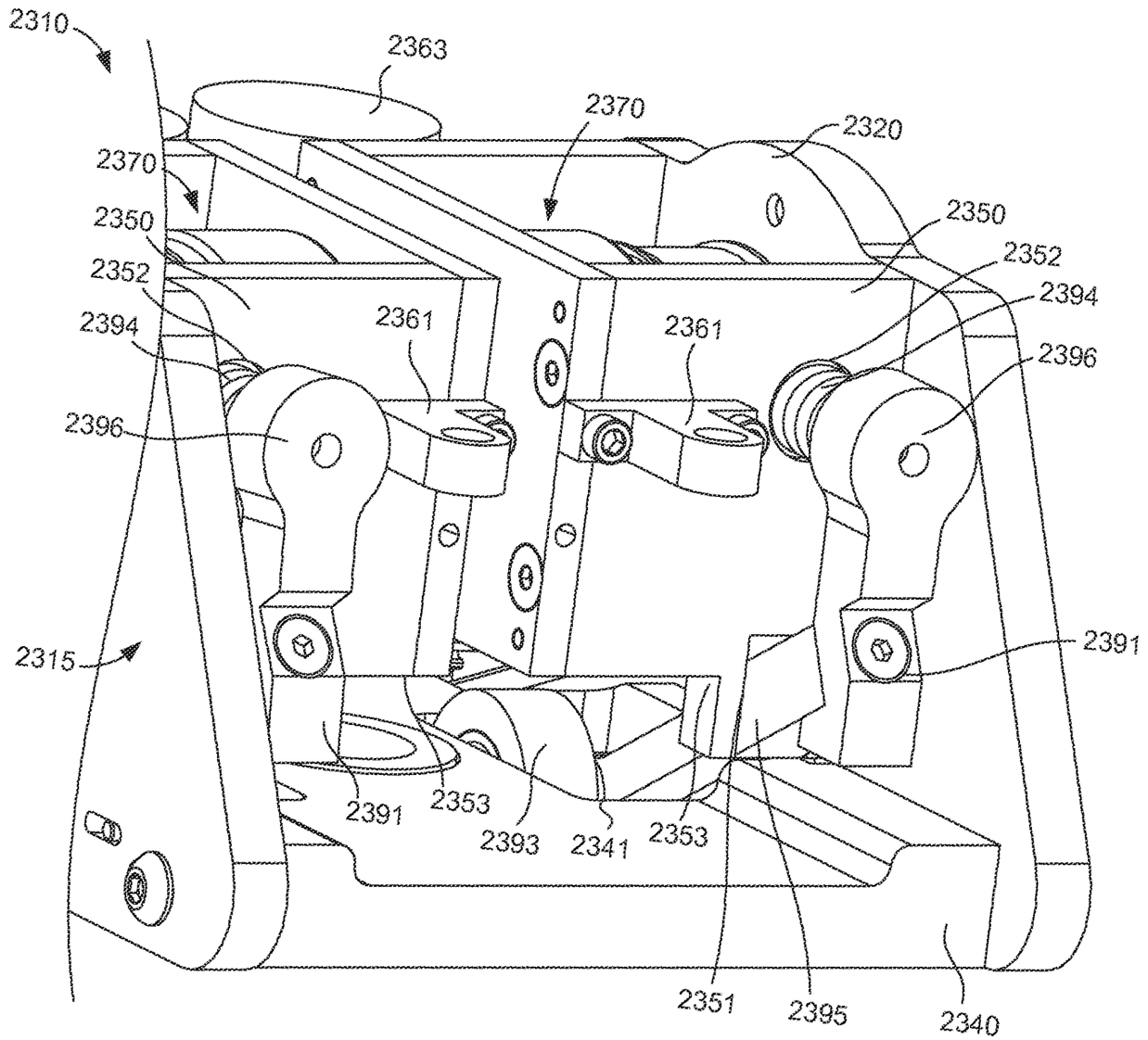


FIG. 22

Aretech LLC - Exhibit 1002, Page 00092

Aretech LLC - Exhibit 1002, Page 00093

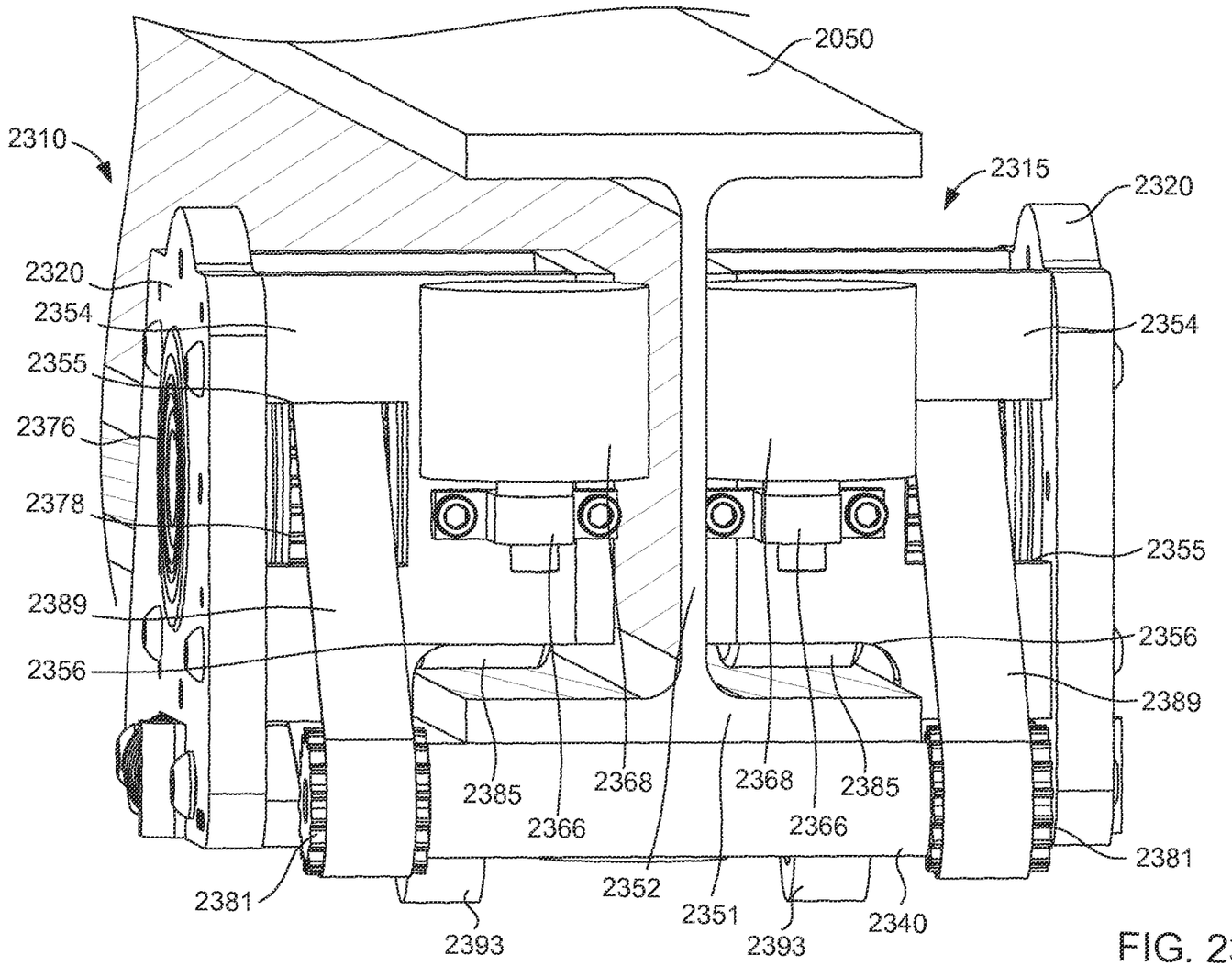


FIG. 23

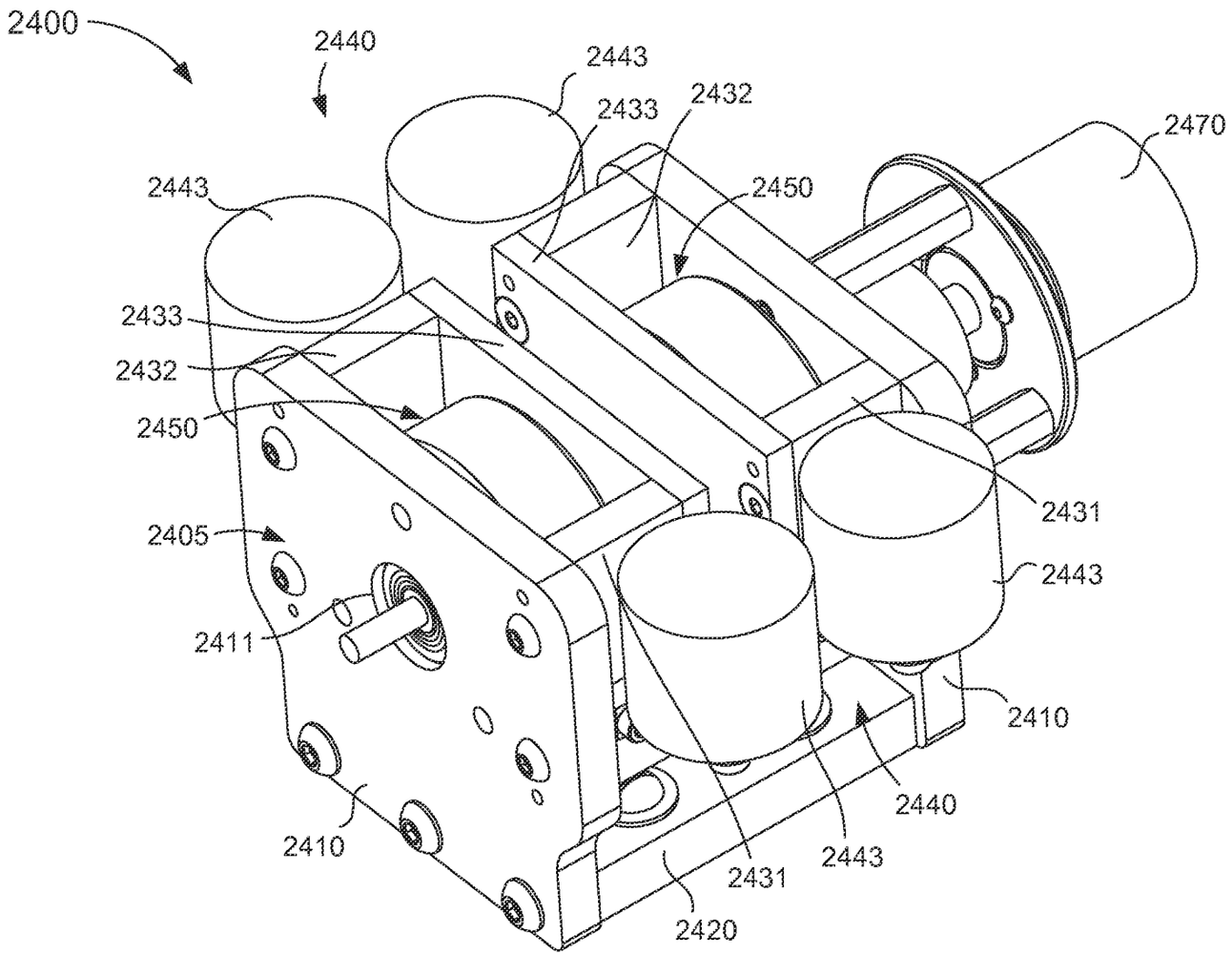


FIG. 24

Aretech LLC - Exhibit 1002, Page 00094

Aretech LLC - Exhibit 1002, Page 00095

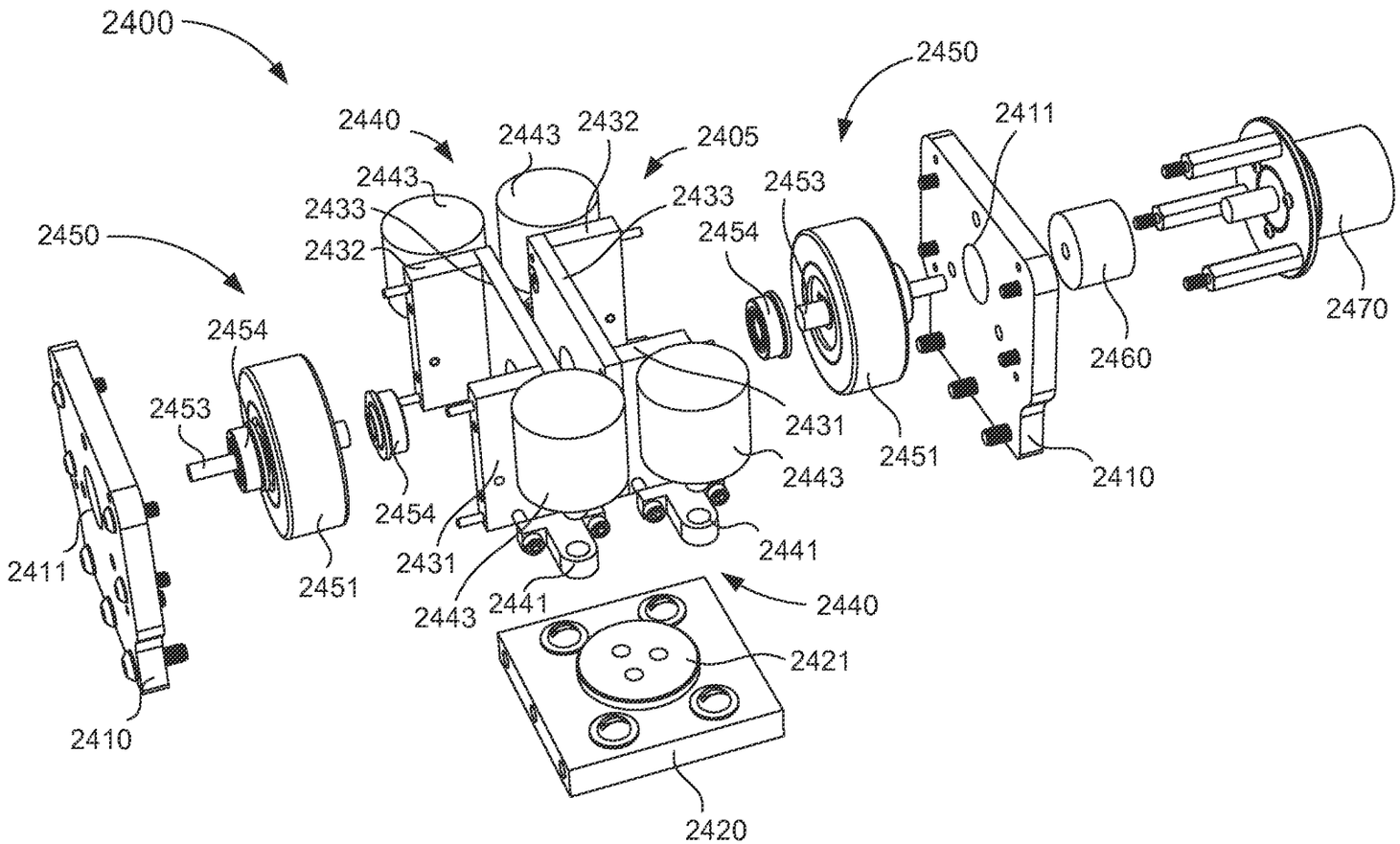


FIG. 25

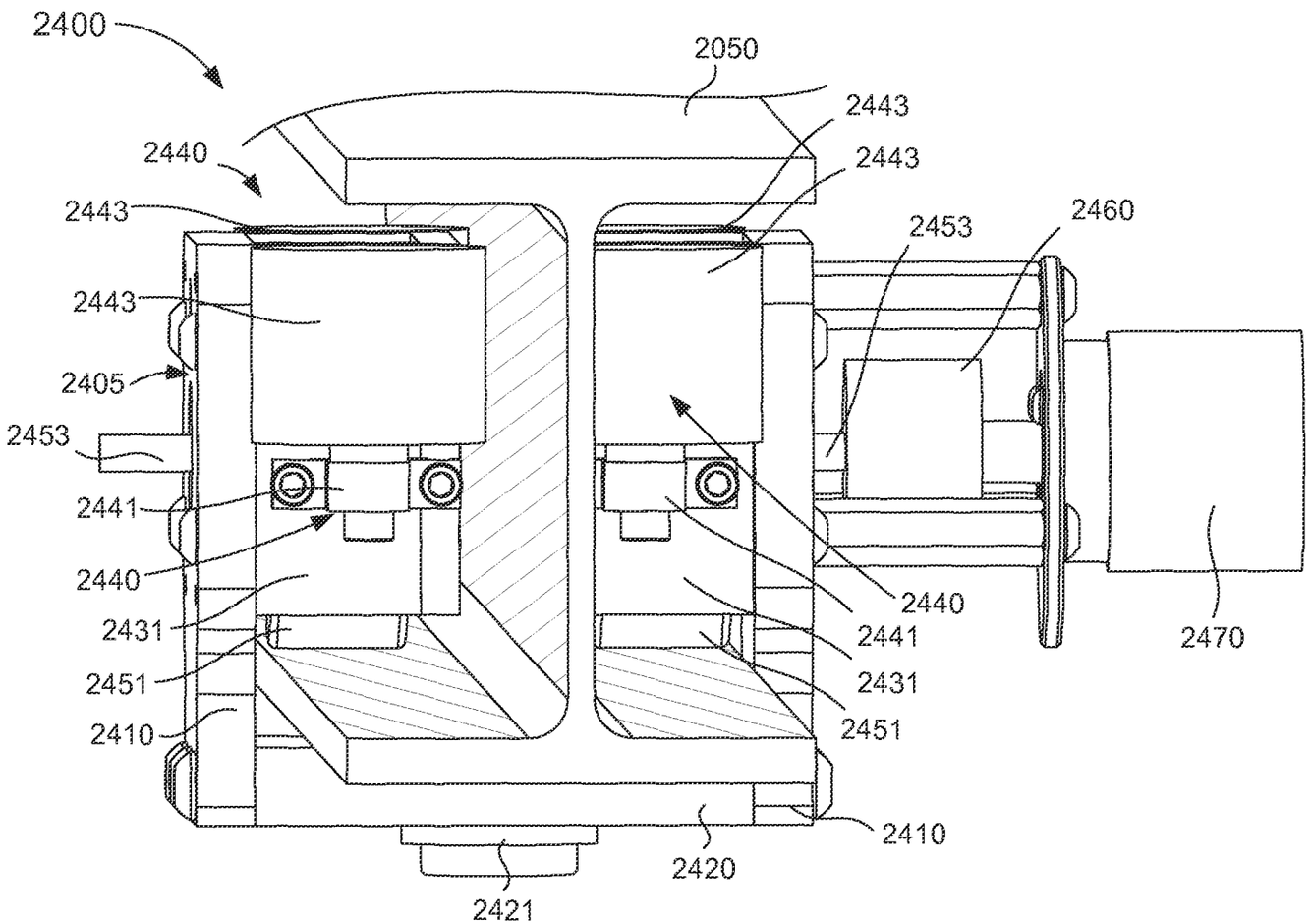


FIG. 26

Aretech LLC - Exhibit 1002, Page 00096

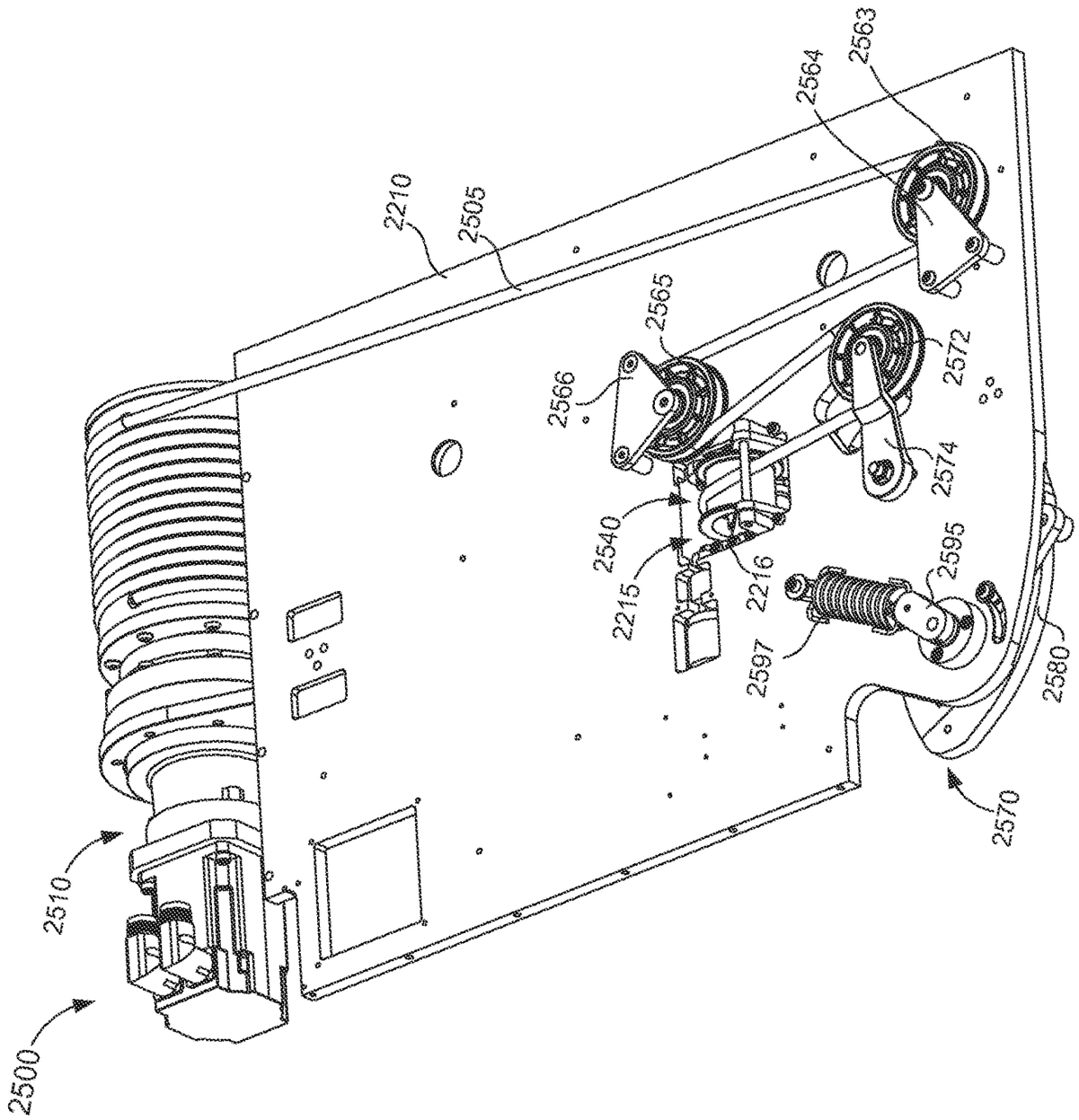

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2510
2210
2505
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FIG. 27

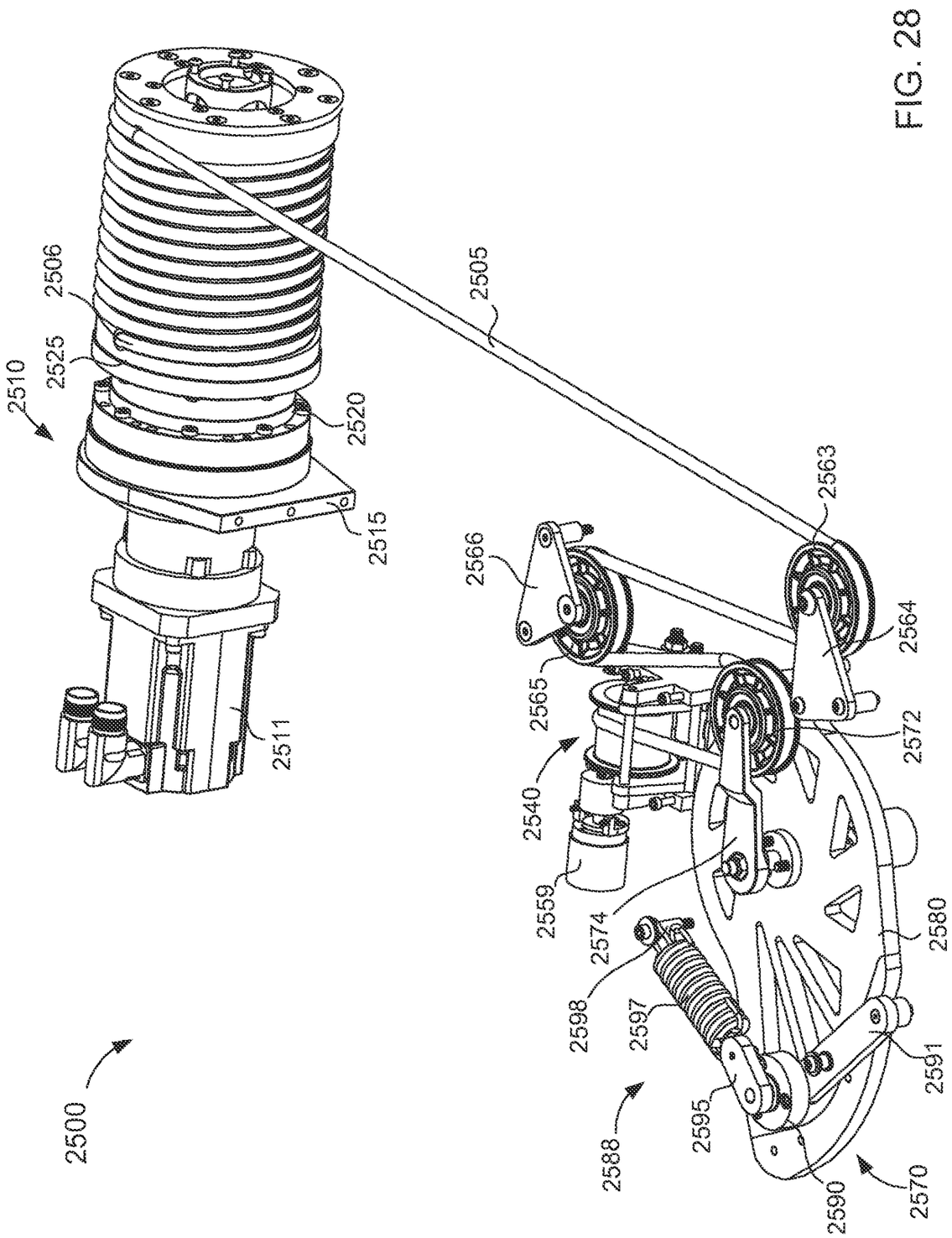

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FIG. 28

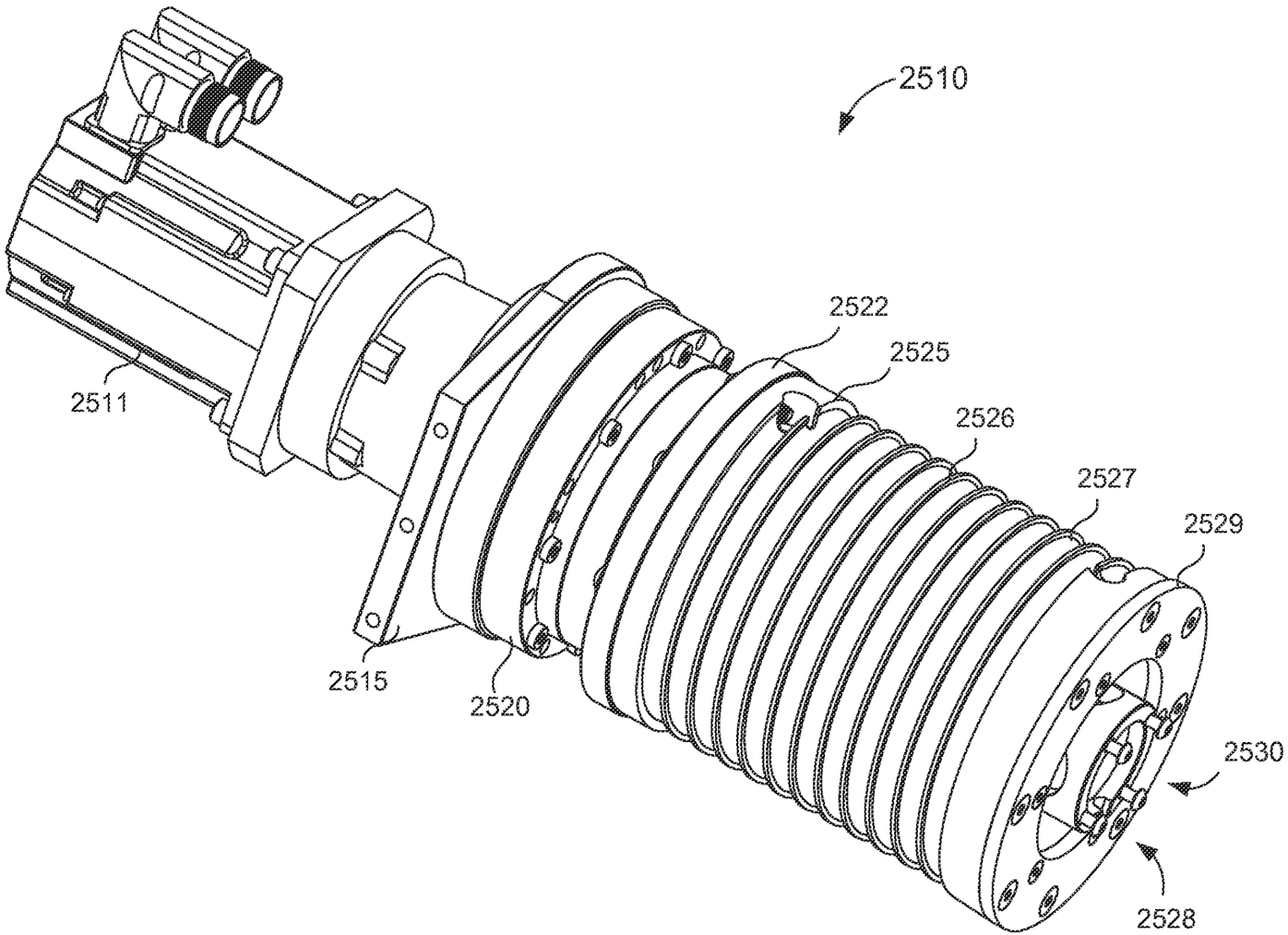


FIG. 29

Aretech LLC - Exhibit 1002, Page 00099

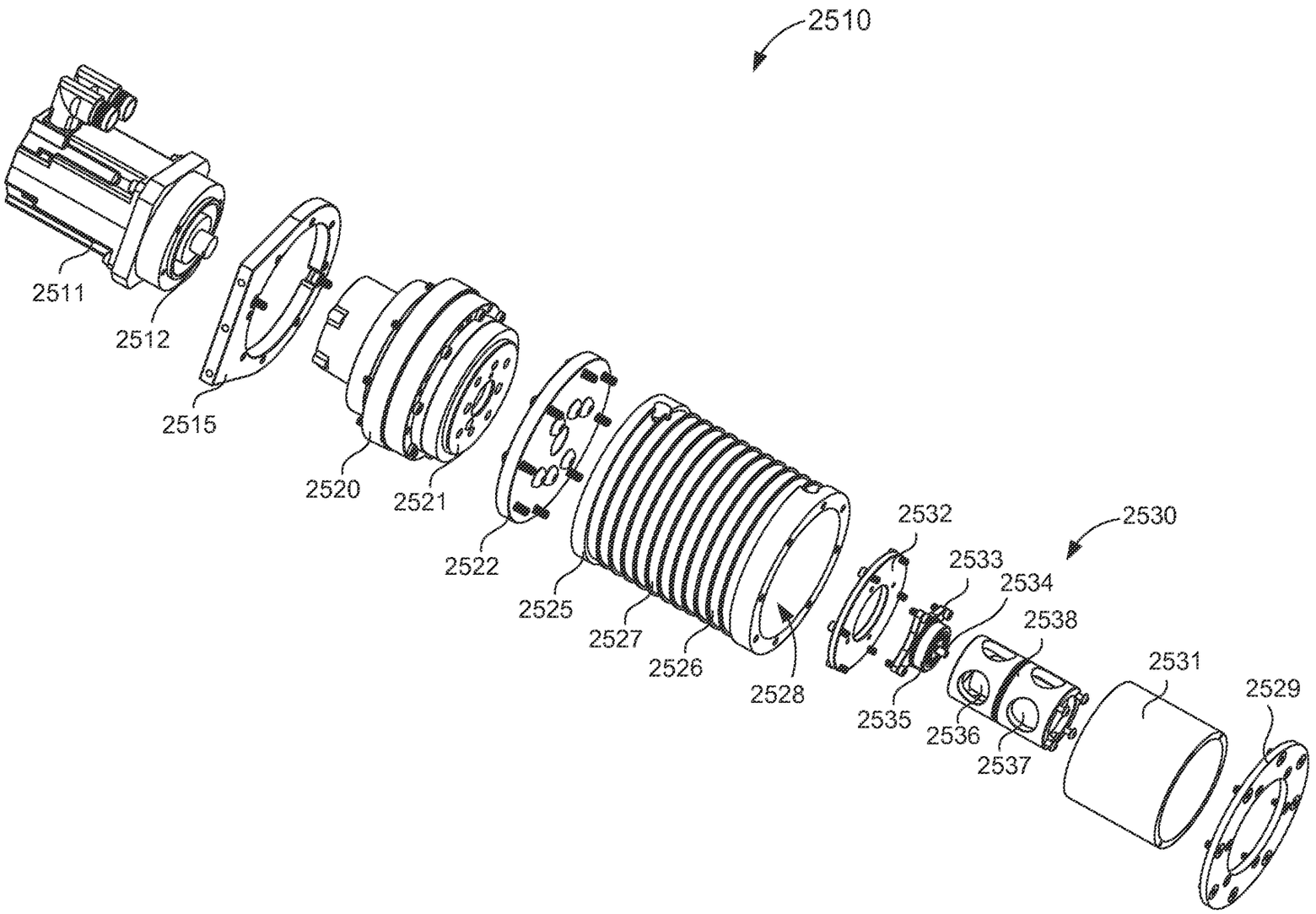


FIG. 30

Aretech LLC - Exhibit 1002, Page 00100

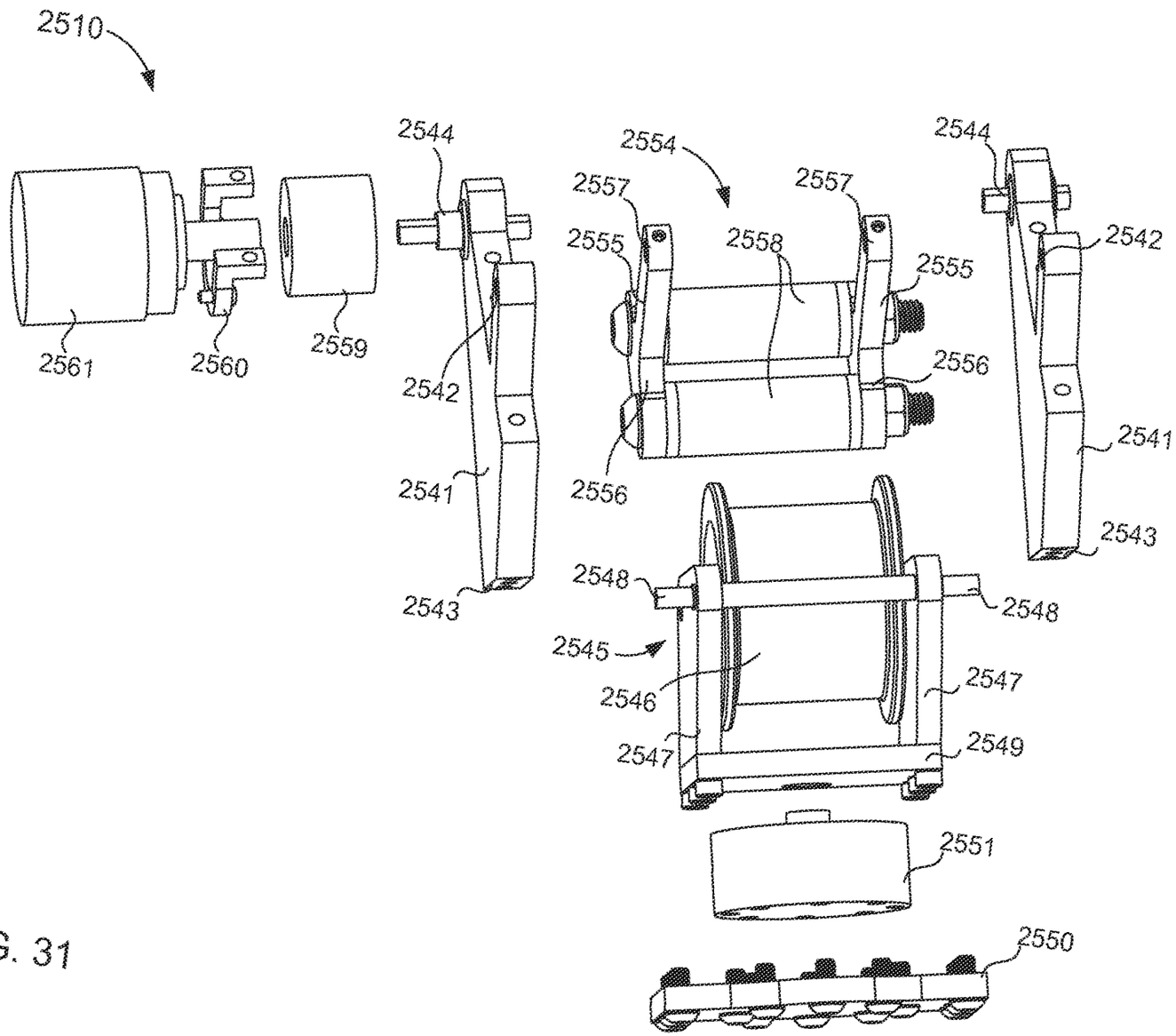


FIG. 31

Aretech LLC - Exhibit 1002, Page 00101

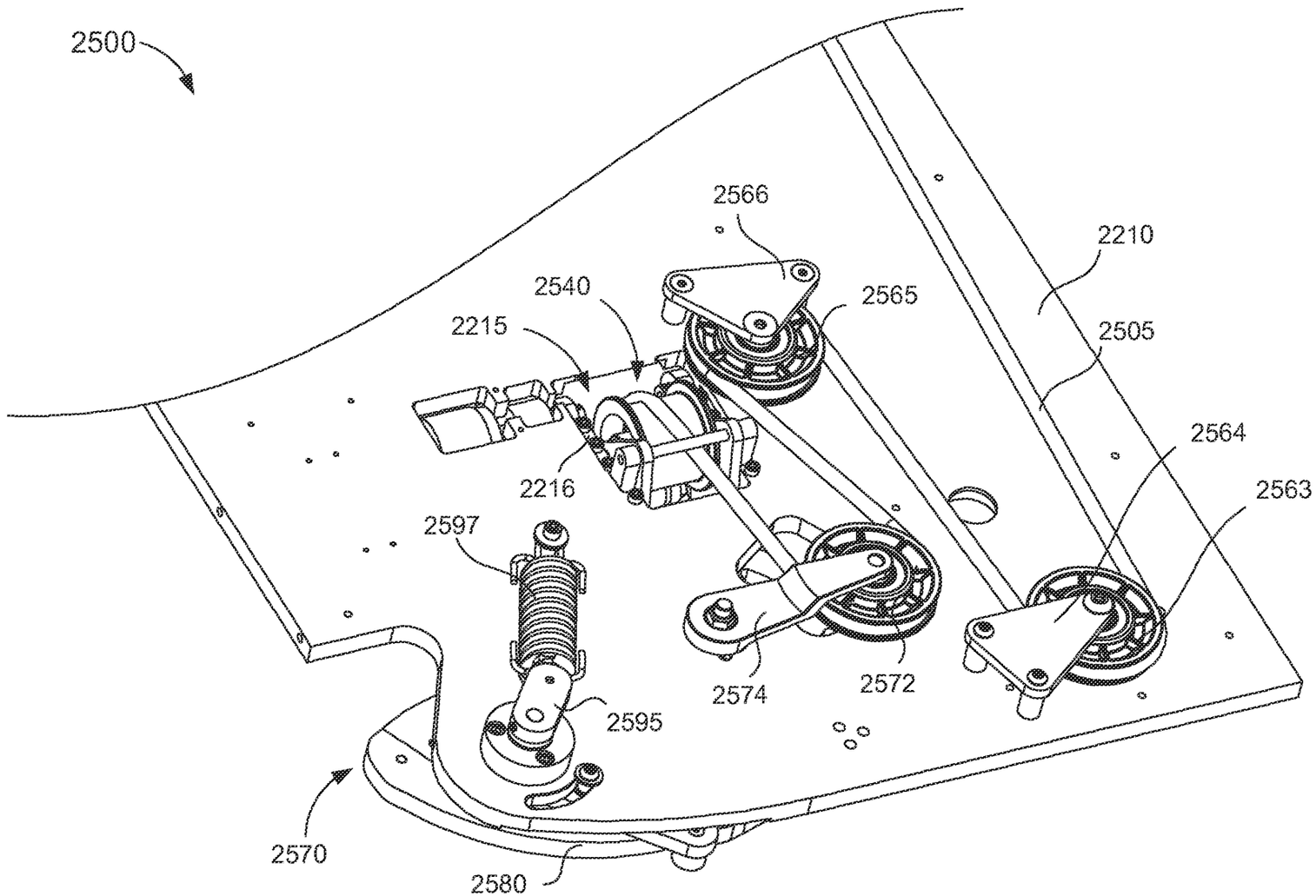


FIG. 32

Aretech LLC - Exhibit 1002, Page 00102

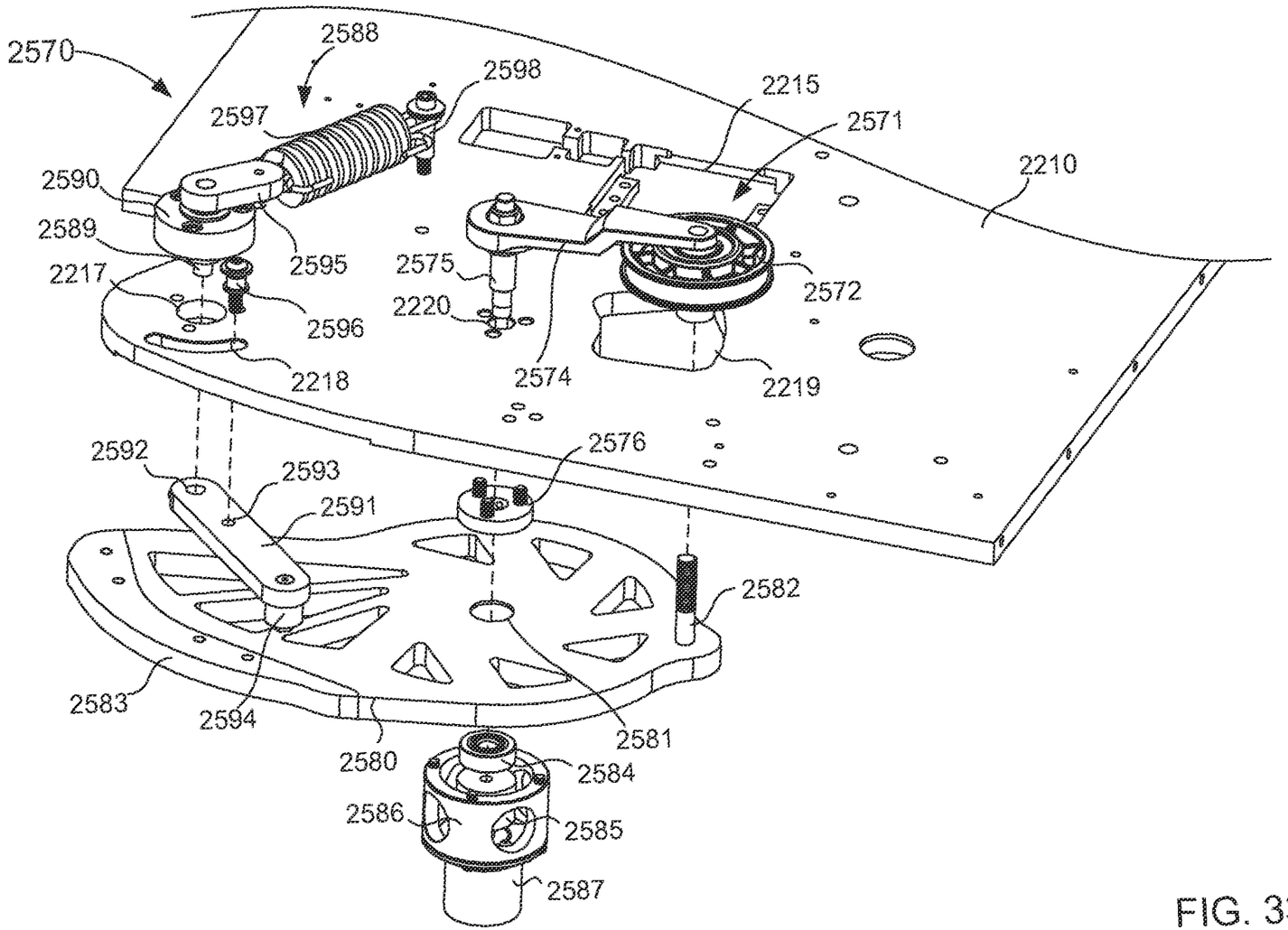


FIG. 33

Aretech LLC - Exhibit 1002, Page 00103

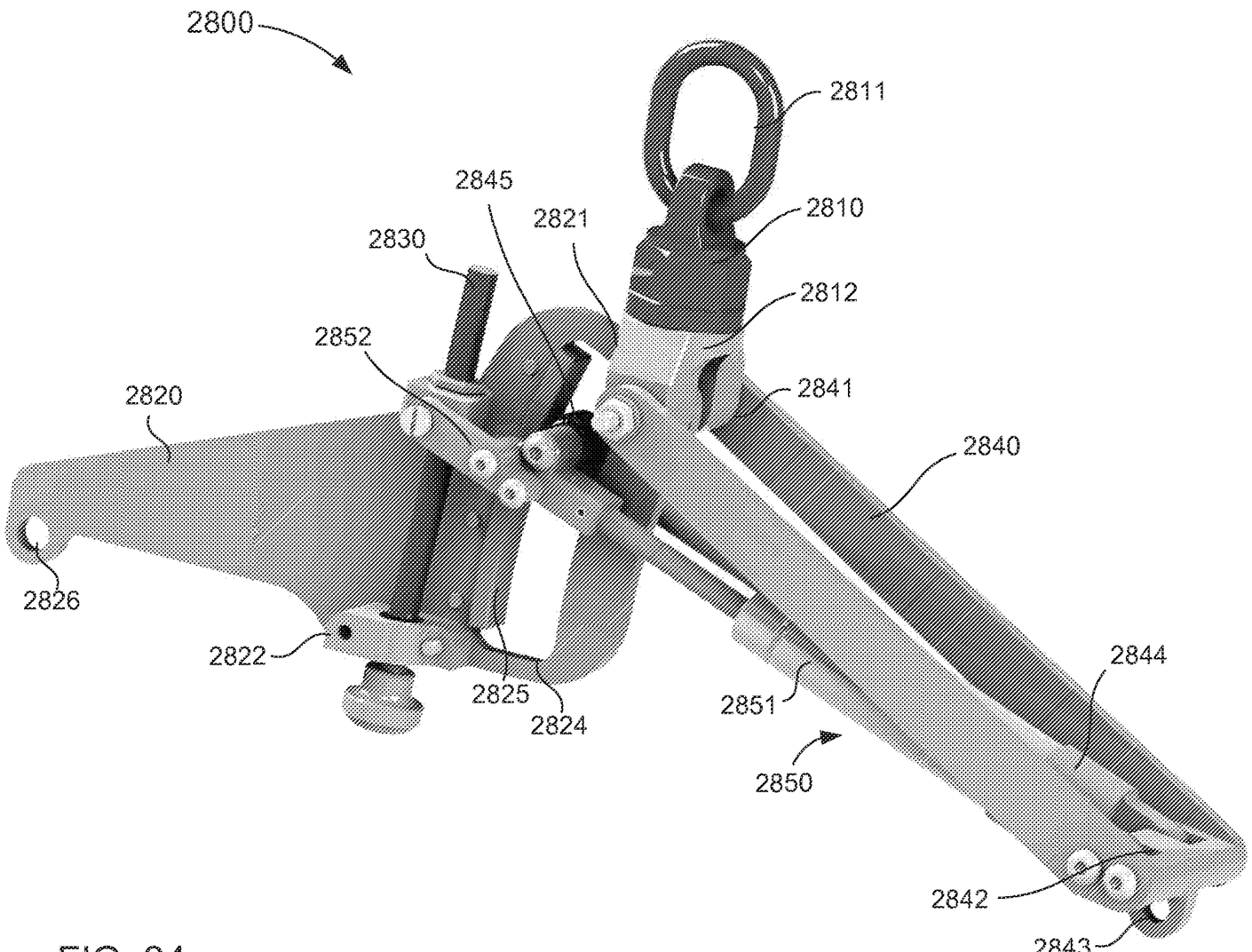


FIG. 34

Aretech LLC - Exhibit 1002, Page 00104

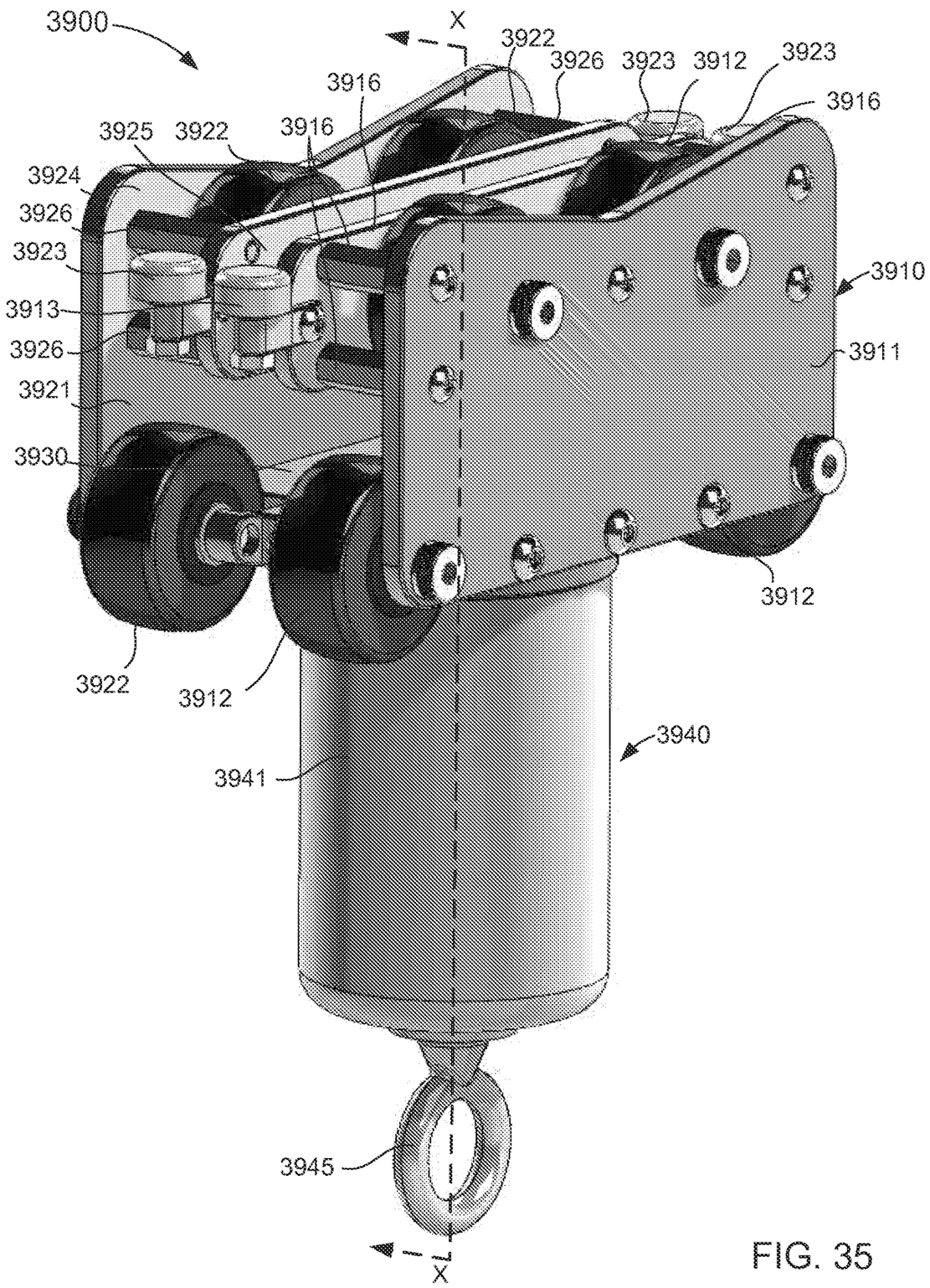

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FIG. 35

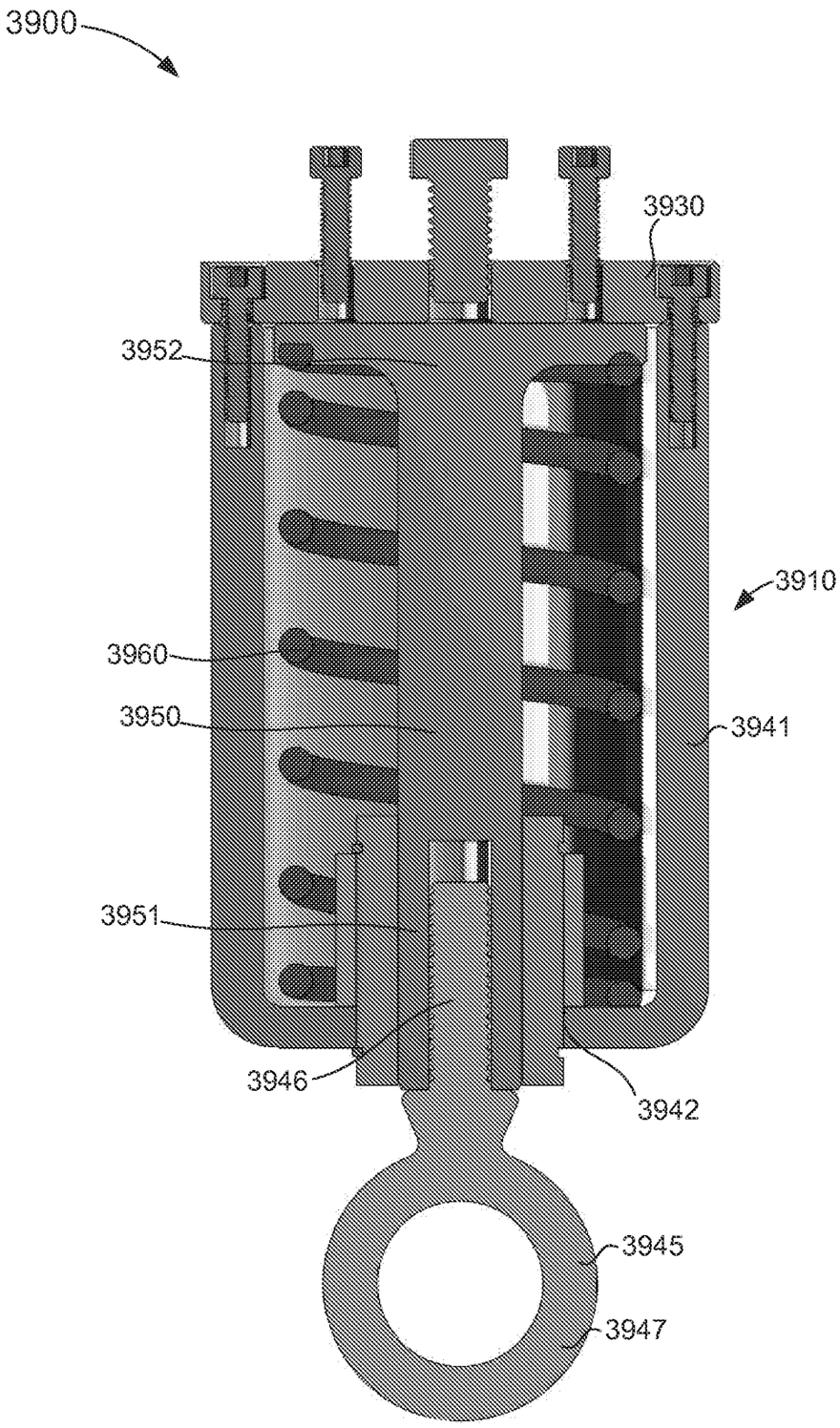


FIG. 36

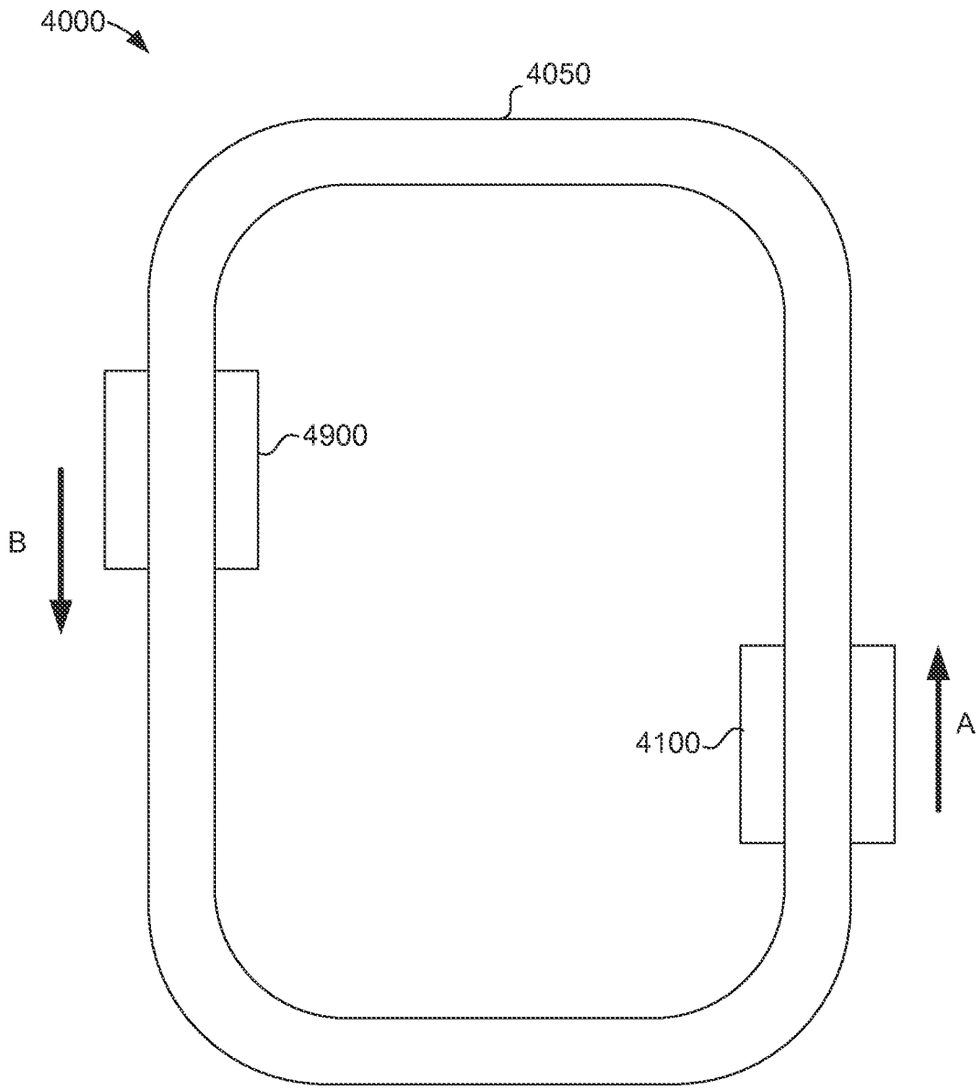


FIG. 37

DocCode - SCORE

SCORE Placeholder Sheet for IFW Content

Application Number: 13745830 Document Date: 01/20/2013

The presence of this form in the IFW record indicates that the following document type was received in electronic format on the date identified above. This content is stored in the SCORE database.

- Drawings – Other than Black and White Line Drawings

Since this was an electronic submission, there is no physical artifact folder, no artifact folder is recorded in PALM, and no paper documents or physical media exist. The TIFF images in the IFW record were created from the original documents that are stored in SCORE.

To access the documents in the SCORE database, refer to instructions developed by SIRA.

At the time of document entry (noted above):

- Examiners may access SCORE content via the eDAN interface.
- Other USPTO employees can bookmark the current SCORE URL (http://es/ScoreAccessWeb/).
- External customers may access SCORE content via the Public and Private PAIR interfaces.

Form Revision Date: February 8, 2006

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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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/745,830	01/20/2013	Arkady Glukhovsky	BION-051/00US 307799-2244

CONFIRMATION NO. 6272

58249
COOLEY LLP
ATTN: Patent Group
1299 Pennsylvania Avenue, NW
Suite 700
Washington, DC 20004

FORMALITIES LETTER

OC000000059296702

Date Mailed: 02/14/2013

NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

Filing Date Granted

Items Required To Avoid Abandonment:

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The statutory basic filing fee is missing.
  *Applicant must submit $**390** to complete the basic filing fee for a non-small entity. If appropriate, applicant may make a written assertion of entitlement to small entity status and pay the small entity filing fee (37 CFR 1.27).*

The applicant needs to satisfy supplemental fees problems indicated below.

The required item(s) identified below must be timely submitted to avoid abandonment:

- Additional claim fees of $ **62** as a non-small entity, including any required multiple dependent claim fee, are required. Applicant must submit the additional claim fees or cancel the additional claims for which fees are due.
- A surcharge (for late submission of the basic filing fee, search fee, examination fee or inventor's oath or declaration) as set forth in 37 CFR 1.16(f) of $ **130** for a non-small entity, must be submitted.

SUMMARY OF FEES DUE:

Total fee(s) required within **TWO MONTHS** from the date of this Notice is $ **1452** for a non-small entity
- $ **390** Statutory basic filing fee.
- $ **130** Surcharge.
- The application search fee has not been paid. Applicant must submit $ **620** to complete the search fee.
- The application examination fee has not been paid. Applicant must submit $ **250** to complete the examination fee for a non-small entity.
- Total additional claim fee(s) for this application is $ **62**
  - $ **62** for **1** total claims over 20.

Items Required To Avoid Processing Delays:

Applicant is notified that the above-identified application contains the deficiencies noted below. No period for reply is set forth in this notice for correction of these deficiencies. However, if a deficiency relates to the inventor's oath or declaration, the applicant must file 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 actual inventor no later than the expiration of the time period set in the "Notice of Allowability" to avoid abandonment. See 37 CFR 1.53(f).

- A properly executed inventor's oath or declaration has not been received for the following inventor(s):
  All
  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.

Replies must be received in the USPTO within the set time period or must include a proper Certificate of Mailing or Transmission under 37 CFR 1.8 with a mailing or transmission date within the set time period. For more information and a suggested format, see Form PTO/SB/92 and MPEP 512.

Replies should be mailed to:

Mail Stop Missing Parts
Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web.
https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html

For more information about EFS-Web please call the USPTO Electronic Business Center at **1-866-217-9197** or visit our website at http://www.uspto.gov/ebc.

If you are not using EFS-Web to submit your reply, you must include a copy of this notice.

/tlulu/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

Aretech LLC - Exhibit 1002, Page 00110

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

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
13/745,830	01/20/2013	3673	0.00	BION-051/00US 307799-2244	21	3

CONFIRMATION NO. 6272

58249
COOLEY LLP
ATTN: Patent Group
1299 Pennsylvania Avenue, NW
Suite 700
Washington, DC 20004

FILING RECEIPT

OC00000059296701

Date Mailed: 02/14/2013

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Inventor(s)

Arkady Glukhovsky, Valencia, CA;

Applicant(s)

Arkady Glukhovsky, Valencia, CA;

Power of Attorney: None

Domestic Applications for which benefit is claimed - None.
A proper domestic benefit claim must be provided in an Application Data Sheet in order to constitute a claim for domestic benefit. See 37 CFR 1.76 and 1.78.

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.) - None.
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access - A proper **Authorization to Permit Access to Application by Participating Offices** (PTO/SB/39 or its equivalent) has been received by the USPTO.

If Required, Foreign Filing License Granted: 02/13/2013

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 13/745,830**

Projected Publication Date: To Be Determined - pending completion of Missing Parts

Non-Publication Request: No

Early Publication Request: No

Title

METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM

Preliminary Class

005

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at http://www.uspto.gov/web/offices/pac/doc/general/index.html.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as

set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign AssetsControl, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

SelectUSA

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop technology, manufacture products, deliver services, and grow your business, visit http://www.SelectUSA.gov or call +1-202-482-6800.

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

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
13/745,830	01/20/2013	3673	1820	BION-051/00US 307799-2244	21	3

CONFIRMATION NO. 6272

UPDATED FILING RECEIPT

58249
COOLEY LLP
ATTN: Patent Group
1299 Pennsylvania Avenue, NW
Suite 700
Washington, DC 20004

OC000000064509910

Date Mailed: 10/23/2013

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Inventor(s)
Arkady Glukhovsky, Valencia, CA;

Applicant(s)
Arkady Glukhovsky, Valencia, CA;

Assignment For Published Patent Application
Bioness Inc., Vaencia, CA

Power of Attorney: None

Domestic Applications for which benefit is claimed - None.
A proper domestic benefit claim must be provided in an Application Data Sheet in order to constitute a claim for domestic benefit. See 37 CFR 1.76 and 1.78.

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.) - None.
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access - A proper **Authorization to Permit Access to Application by Participating Offices** (PTO/SB/39 or its equivalent) has been received by the USPTO.

If Required, Foreign Filing License Granted: 02/13/2013
The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 13/745,830**
Projected Publication Date: 07/24/2014
Non-Publication Request: No

Early Publication Request: No
Title

METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM

Preliminary Class

005

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications:

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at http://www.uspto.gov/web/offices/pac/doc/general/index.html.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

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Title 37, Code of Federal Regulations, 5.11 & 5.15

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This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign AssetsControl, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/745,830	01/20/2013	Arkady Glukhovsky	BION-051/00US 307799-2244

CONFIRMATION NO. 6272

58249
COOLEY LLP
ATTN: Patent Group
1299 Pennsylvania Avenue, NW
Suite 700
Washington, DC 20004

NOTICE

OC000000064509911

Date Mailed: 10/23/2013

INFORMATIONAL NOTICE TO APPLICANT

Applicant is notified that the above-identified application contains the deficiencies noted below. No period for reply is set forth in this notice for correction of these deficiencies. However, if a deficiency relates to the inventor's oath or declaration, the applicant must file 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 actual inventor no later than the expiration of the time period set in the "Notice of Allowability" to avoid abandonment. See 37 CFR 1.53(f).

The item(s) indicated below are also required and should be submitted with any reply to this notice to avoid further processing delays.

- A properly executed inventor's oath or declaration has not been received for the following inventor(s):
  All
  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.

Electronic Acknowledgement Receipt	
EFS ID:	19340120
Application Number:	13745830
International Application Number:	
Confirmation Number:	6272
Title of Invention:	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM
First Named Inventor/Applicant Name:	Arkady Glukhovsky
Customer Number:	58249
Filer:	Margaret Fischofer/Rebecca Phelan
Filer Authorized By:	Margaret Fischofer
Attorney Docket Number:	BION-051/00US 307799-2244
Receipt Date:	19-JUN-2014
Filing Date:	20-JAN-2013
Time Stamp:	14:52:47
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$140
RAM confirmation Number	1144
Deposit Account	501283
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)	
Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees)	
Charge any Additional Fees required under 37 C.F.R. Section 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	Oath or Declaration filed	BION-051-00US-Declaration.pdf	1399142 19db38bbc6c743538b769609cbbcadf7761d75bf	no	11
Warnings:					
Information:					
2	Power of Attorney	BION-051-00US-Power.pdf	1019381 ac262534e0cb60eeaf45def8f1a1e3ffa184b705	no	15
Warnings:					
Information:					
3	Request under Rule 48 correcting inventorship	BION-051-00US-RequestToCorrectInventorship.pdf	57416 6b842884be73b3fff4954be6f0d4cd5bc7096b9f	no	2
Warnings:					
Information:					
4	Application Data Sheet	BION-051-00US-ADS.pdf	1504525 086f44f02e90aebf48c15e93b3b1f012198a9fec	no	9
Warnings:					
Information:					
5	Fee Worksheet (SB06)	fee-info.pdf	30604 c2b86ed75bb20d3d6f8a5009ddd78d12ae71aa9a	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	4011068		

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.

New Applications Under 35 U.S.C. 111
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.

National Stage of an International Application under 35 U.S.C. 371
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.

New International Application Filed with the USPTO as a Receiving Office
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.

Electronic Patent Application Fee Transmittal

Application Number:	13745830
Filing Date:	20-Jan-2013
Title of Invention:	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM
First Named Inventor/Applicant Name:	Arkady Glukhovsky
Filer:	Margaret Fischofer/Rebecca Phelan
Attorney Docket Number:	BION-051/00US 307799-2244

Filed as Large Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
PROCESSING FEE, EXCEPT PROV. APPLS.	1830	1	140	140
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
			Total in USD ($)	**140**

Attorney Docket No. BION-051/00US 307799-2244 **PATENT**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:	Arkady GLUKHOVSKY	Confirmation No.:	6272
Serial No.:	13/745,830	Group Art Unit:	3673
Filed:	January 20, 2013	Examiner:	Not yet assigned

FOR: **METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

POWER BY ASSIGNEE AND STATEMENT UNDER 37 C.F.R. §3.73(b)

The Assignee of the entire right, title, and interest in the above-identified application hereby grants the registered practitioners of Cooley LLP included in the Customer Number provided below power to act, prosecute, and transact all business in the U.S. Patent and Trademark Office in connection with this application, any applications claiming priority to this application, and any patents issuing therefrom.

The Assignee certifies that to the best of its knowledge and belief it is the owner of the entire right, title, and interest in and to the above-identified application as evidenced by:

☒ An assignment document, a copy of which is enclosed herewith and is being recorded with the U.S. Patent and Trademark Office concurrently herewith;

☐ An assignment previously recorded in the U.S. Patent and Trademark Office at Reel ___, Frame ___.

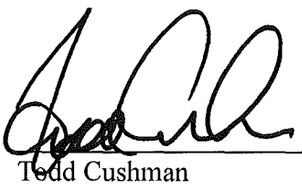
Please direct all telephone calls and correspondence to:

CUSTOMER NUMBER: **58249**

COOLEY LLP
ATTN: Patent Group
1299 Pennsylvania Avenue NW, Suite 700
Washington, DC 20004
Tel: (703) 456-8000
Fax: (202) 842-7899

The undersigned (whose title is supplied below) is empowered to sign this statement on behalf of the Assignee.

Date: 06/17/14

Signature: 

Name: Todd Cushman
Title: CEO
Company: Bioness Inc.

549332 v1/RE

Attorney Docket No: BION-051/00US 307799-2244 **PATENT**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of	Arkady GLUKHOVSKY et al.	Confirmation No.:	6272
Serial No.:	13/745,830	Group Art Unit:	3673
Filed:	January 20, 2013	Examiner:	Eric J. Kurilla

For **SYSTEM FOR TRANSMITTING ELECTRICAL CURRENT TO A BODILY TISSUE**

U.S. Patent and Trademark Office, via EFS
Randolph Building
401 Dulany Street
Alexandria, VA 22314

REQUEST TO CORRECT INVENTORSHIP UNDER 37 C.F.R. § 1.48(a)

Applicant respectfully requests a correction of inventorship of the above-identified application. It is requested that Joel Behnke, Todd Cushman, Erol Erturk, Kelvin J. Hasseler, Keith McBride, Moshe Olim, Perry Payne, Kenneth A. Regas, William H. Schwiebert, and Daniel Scott Weinstein be added as co-inventors.

This request is accompanied by:

1. Application Data Sheet as required by 37 C.F.R. § 1.48(a)(1);
2. Declaration from all inventors as required by 37 C.F.R. § 1.48(b); and
3. The processing fee as required by 37 C.F.R. § 1.48(a)(2) and set forth in 37 C.F.R. § 1.17(i).

The Commissioner 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.

Dated: 6/19/14

Respectfully submitted,
COOLEY LLP

By: _____ Reg. No. 42587
Margaret S. Fischofer
Reg. No. 61,689

COOLEY LLP
ATTN: Patent Group
1299 Pennsylvania Avenue NW, Suite 700
Washington, DC 20004

Tel: (703) 456-8113
Fax: (202) 842-7899

108212331 v1

ASSIGNMENT

Joel Behnke, residing at 23038 Edenton Place, Valencia, CA 91354, **Todd Cushman**, residing at 6 San Miguel, Coto de Caza, CA 92679, **Erol Erturk**, residing at 403 Sheffield Avenue, Cardiff, CA 92007, **Arkady Glukhovsky**, residing at 23716 Via Andorra, Valencia, CA 91355, **Kelvin J. Hasseler**, residing at 39815 Tinderbox Way, Murrieta, CA 92562, **Keith McBride**, residing at 738 Bennett Avenue, Ventura, CA 93003, **Moshe Olim**, residing at 12158 Mannix Road, San Diego, CA 92129, **Perry Payne**, residing at 21725 Rose Canyon Lane, Saugus, CA 91390, **Kenneth A. Regas**, residing at 14627 Poway Mesa Drive, Poway CA 92064, **William H. Schweibert**, residing at 2498 Briarwood Court, Escondido, CA 92025, and **Daniel Scott Weinstein**, residing at 707 10th Avenue, #715, San Diego, CA 92101 (each referred to as "Assignor") have made an invention(s) (the "Invention(s)") set forth in an application for patent of the United States, entitled **METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM**, and which is a:

(1) ☐ provisional application
- (a) ☐ to be filed herewith; or
- (b) ☐ bearing Application No. , and filed on ; or

(2) ☒ non-provisional application
- (a) ☐ to be filed herewith; or
- (b) ☒ bearing Application No. 13/745,830, and filed on January 20, 2013.

WHEREAS, Bioness Inc., a corporation duly organized under and pursuant to the laws of California, and having its principal place of business at 25103 Rye Canyon Loop, Valencia, CA 91355 (the "Assignee"), is desirous of acquiring the entire right, title, and interest in: the Invention; the application for patent identified in paragraph (1) or (2); the right to file applications for patent of the United States or other countries on the Invention; any application for patent of the United States or other countries claiming priority to these application; any provisional or other right to recover damages, including royalties, for prior infringements of these applications; and any patent of the United States or other countries that may be granted therefor or thereon.

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, and to the extent that the Assignor has not done so already via a prior agreement with the Assignee, or if the Assignor has already done so via a prior agreement with the Assignee then in confirmation of any obligation to do so in said prior agreement, the Assignor has sold, assigned, transferred, and set over, and by these presents does sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns, the Assignor's entire right, title, and interest in:

(a) the Invention(s);

(b) the application for patent identified in paragraph (1) or (2);

(c) the right to file applications for patent of the United States or other countries on the Invention(s), including all rights under the Hague Convention, the Paris Convention for the Protection of Industrial Property and under the Patent Cooperation Treaty;

(d) any application(s) for patent of the United States or other countries claiming the Invention(s);

(e) any application(s) for patent of the United States or other countries claiming priority to the application for patent identified in paragraph (1) or (2) or any application(s) for patent claiming the Invention(s), including any division(s), continuation(s), and continuation(s)-in-part;

(f) any provisional or other right to recover damages, including royalties, for prior infringements of any application for patent identified in the preceding paragraphs (b)-(e); and

(g) any patent(s) of the United States or other countries that may be granted for or on any application for patent identified in the preceding paragraphs (b) – (e), including any reissue(s) and extension(s) of said patent(s).

The above-granted rights, titles, and interests are to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, as fully and entirely as the same would have been held and enjoyed by the Assignor had this sale and assignment not been made.

The Assignor hereby represents to the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, or if applicable, at such time said prior agreement was executed, the Assignor is a lawful owner of an undivided interest in the entire right, title, and interest in and to the Invention(s), that the Invention(s) are unencumbered, except, if applicable, by obligation to assign in accordance with said prior agreement, and that the Assignor has good and full right and lawful authority to sell and convey the same in the manner set forth herein.

The Assignor hereby covenants and agrees to and with the Assignee, its successors, legal representatives, and assigns, that the Assignor will sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done in connection with any and all proceedings for the procurement, maintenance, enforcement and defense of the Invention(s), said applications, and said patents, including interference proceedings, without charge to the Assignor, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns.

The Assignor hereby requests the Commissioner of Patents to issue said patents of the United States to the Assignee for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

Date: 01/15/14 By: _____
Joel Behnke

State of California)
) ss.
County of Los Angeles)

On January 15, 2014, before me, LINDA S. GONZALEZ, Notary Public, personally appeared JOEL W. BEHNKE, who proved to me on the basis of satisfactory evidence, to be the person(~~s~~) whose name(~~s~~) is/~~are~~ subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(~~ies~~), and that by his/~~her/their~~ signature(~~s~~) on the instrument the person(~~s~~), or the entity upon behalf of which the person(~~s~~) acted, executed the instrument.

REQUIRED SENTENCE IF NOTARIZED IN CALIFORNIA: I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

LINDA S. GONZALEZ
Commission # 1944340
Notary Public - California
Los Angeles County
My Comm. Expires Jul 20, 2015

Signature of Notary Public

Place Notary Seal Above

My Commission Expires: July 20, 2015

Date: 1-6-14 By: _____
Todd Cushman

State of California)
) ss.
County of Los Angeles)

On Jan 6, 2014, before me, LINDA S. GONZÁLEZ, Notary Public, personally appeared TODD C. CUSHMAN, who proved to me on the basis of satisfactory evidence, to be the person(~~s~~) whose name(~~s~~) is/~~are~~ subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(~~ies~~), and that by his/~~her/their~~ signature(~~s~~) on the instrument the person(~~s~~), or the entity upon behalf of which the person(~~s~~) acted, executed the instrument.

REQUIRED SENTENCE IF NOTARIZED IN CALIFORNIA: I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

LINDA S. GONZALEZ
Commission # 1944340
Notary Public - California
Los Angeles County
My Comm. Expires Jul 20, 2015

Signature of Notary Public

Place Notary Seal Above

My Commission Expires: 07-20-2015

Date: 2/5/2014 By: Erol Erturk
Erol Erturk

State of California)
) ss.
County of San Diego)

On February 5th 2014 before me, Joshua Anthony Bolles Notary Public, personally appeared Erol Erturk, who proved to me on the basis of satisfactory evidence, to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

REQUIRED SENTENCE IF NOTARIZED IN CALIFORNIA: I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature of Notary Public

Place Notary Seal Above

My Commission Expires: 03/31/2017

OFFICIAL SEAL
JOSHUA ANTHONY BOLLES
NOTARY PUBLIC-CALIFORNIA
COMM. NO. 2017060
SAN DIEGO COUNTY
MY COMM. EXP. MARCH 31, 2017

Date: 1/10/2014 By: _____
Arkady Glukhovsky

State of CALIFORNIA)
) ss.
County of LOS ANGELES)

On January 10, 2014, before me, LINDA S. GONZALEZ, Notary Public, personally appeared ARKADY GLUKHOVSKY, who proved to me on the basis of satisfactory evidence, to be the person~~(s)~~ whose name~~(s)~~ is/~~are~~ subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/her/their authorized capacity~~(ies)~~, and that by his/~~her/their~~ signature~~(s)~~ on the instrument the person~~(s)~~, or the entity upon behalf of which the person~~(s)~~ acted, executed the instrument.

REQUIRED SENTENCE IF NOTARIZED IN CALIFORNIA: I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

LINDA S. GONZALEZ
Commission # 1944340
Notary Public - California
Los Angeles County
My Comm. Expires Jul 20, 2015

Signature of Notary Public

Place Notary Seal Above

My Commission Expires: 07-20-2015

Date: 02/05/2014 By: Kelvin J Hasseler
Kelvin J. Hasseler

State of California)
) ss.
County of San Diego)

On February 5th 2014, before me, Joshua Anthony Bolles Notary Public, personally appeared Kelvin J. Hasseler, who proved to me on the basis of satisfactory evidence, to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

REQUIRED SENTENCE IF NOTARIZED IN CALIFORNIA: I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature of Notary Public

Place Notary Seal Above

My Commission Expires: 03/31/2017

OFFICIAL SEAL
JOSHUA ANTHONY BOLLES
NOTARY PUBLIC-CALIFORNIA
COMM. NO. 2017060
SAN DIEGO COUNTY
MY COMM. EXP. MARCH 31, 2017

Date: 1/15/2014 By: _____
Keith McBride

State of California)
County of Los Angeles) ss.

On January 16, 2014, before me, LINDA S. GONZALEZ Notary Public, personally appeared SEAN KEITH McBRIDE, who proved to me on the basis of satisfactory evidence, to be the person~~(s)~~ whose name~~(s)~~ is/~~are~~ subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity~~(ies)~~, and that by his/~~her/their~~ signature~~(s)~~ on the instrument the person~~(s)~~, or the entity upon behalf of which the person~~(s)~~ acted, executed the instrument.

REQUIRED SENTENCE IF NOTARIZED IN CALIFORNIA: I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Linda S. Gonzalez
Signature of Notary Public

LINDA S. GONZALEZ
Commission # 1944340
Notary Public - California
Los Angeles County
My Comm. Expires Jul 20, 2015

Place Notary Seal Above

My Commission Expires: July 20, 2015

Date: Feb 5, 2014 By: _____
Moshe Olim

State of CA)
) ss.
County of San Diego)

On February 5th 2015, before me, Joshua Anthony Bolles Notary Public, personally appeared Moshe Olim, who proved to me on the basis of satisfactory evidence, to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

REQUIRED SENTENCE IF NOTARIZED IN CALIFORNIA: I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

_____
Signature of Notary Public

Place Notary Seal Above

My Commission Expires: 03/31/2017

OFFICIAL SEAL
JOSHUA ANTHONY BOLLES
NOTARY PUBLIC-CALIFORNIA
COMM. NO. 2017060
SAN DIEGO COUNTY
MY COMM. EXP. MARCH 31, 2017

Date: 13 June 2014 By: _____
Perry Payne

State of CALIFORNIA)
) ss.
County of LOS ANGELES)

On JUNE 13, 2014, before me, SIDDIQA AZAM, Notary Public, personally appeared PERRY PAYNE, who proved to me on the basis of satisfactory evidence, to be the person(s) whose name(s) is/~~are~~ subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(~~ies~~), and that by his/~~her/their~~ signature(~~s~~) on the instrument the person(~~s~~), or the entity upon behalf of which the person(~~s~~) acted, executed the instrument.

REQUIRED SENTENCE IF NOTARIZED IN CALIFORNIA: I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

SIDDIQA AZAM
COMM. # 1934512
NOTARY PUBLIC - CALIFORNIA
LOS ANGELES COUNTY
MY COMM. EXP. APR. 30, 2015

_____
Signature of Notary Public

Place Notary Seal Above

My Commission Expires: APRIL 30, 2015

Date: February 5, 2014 By: Kenneth A. Regas
Kenneth A. Regas

State of California)
) ss.
County of San Diego)

On February 5th, before me, Joshua Anthony Bolles Notary Public, personally appeared Kenneth A. Regas, who proved to me on the basis of satisfactory evidence, to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

REQUIRED SENTENCE IF NOTARIZED IN CALIFORNIA: I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature of Notary Public

Place Notary Seal Above

My Commission Expires: 03/31/2017

OFFICIAL SEAL
JOSHUA ANTHONY BOLLES
NOTARY PUBLIC-CALIFORNIA
COMM. NO. 2017060
SAN DIEGO COUNTY
MY COMM. EXP. MARCH 31, 2017

Date: 2-5-2014 By: William H. Schwiebert
William H. Schwiebert

State of California)
) ss.
County of San Diego)

On February 5th 2014 before me, Joshua Anthony Bolles Notary Public, personally appeared William H. Schwiebert, who proved to me on the basis of satisfactory evidence, to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

REQUIRED SENTENCE IF NOTARIZED IN CALIFORNIA: I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature of Notary Public

Place Notary Seal Above

My Commission Expires: 03/31/2017

OFFICIAL SEAL
JOSHUA ANTHONY BOLLES
NOTARY PUBLIC-CALIFORNIA
COMM. NO. 2017060
SAN DIEGO COUNTY
MY COMM. EXP. MARCH 31, 2017

Date: 2/5/2014 By: _____
Daniel Scott Weinstein

State of California)
) ss.
County of San Diego)

On February 5th 2014 before me, Joshua Anthony Bolles Notary Public, personally appeared Daniel Scott Weinstein, who proved to me on the basis of satisfactory evidence, to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

REQUIRED SENTENCE IF NOTARIZED IN CALIFORNIA: I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

_____
Signature of Notary Public

Place Notary Seal Above

My Commission Expires: 03/31/2017

OFFICIAL SEAL
JOSHUA ANTHONY BOLLES
NOTARY PUBLIC-CALIFORNIA
COMM. NO. 2017060
SAN DIEGO COUNTY
MY COMM. EXP. MARCH 31, 2017

551650 v1/RE

PTO/AIA/14 (03-13)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	BION-051/00US 307799-2244
	Application Number	
Title of Invention	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM	

The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.
This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.

Secrecy Order 37 CFR 5.2

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Joel		Behnke	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Valencia	State/Province	CA	Country of Residence i	US

Mailing Address of Inventor:

Address 1	23038 Edenton Place		
Address 2			
City	Valencia	State/Province	CA
Postal Code	91354	Country i	US

Inventor 2 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Todd		Cushman	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Coto de Caza	State/Province	CA	Country of Residence i	US

Mailing Address of Inventor:

Address 1	6 San Miguel		
Address 2			
City	Coto de Caza	State/Province	CA
Postal Code	92679	Country i	US

Inventor 3 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Erol		Erturk	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

PTO/AIA/14 (03-13)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	BION-051/00US 307799-2244
	Application Number	
Title of Invention	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM	

City	Cardiff	State/Province	CA	Country of Residence i	US

Mailing Address of Inventor:

Address 1	403 Sheffield Avenue		
Address 2			
City	Cardiff	State/Province	CA
Postal Code	92007	Country i	US

Remove

Inventor 4

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Arkady		Glukhovsky	

Residence Information (Select One) (•) US Residency ( ) Non US Residency ( ) Active US Military Service

City	Valencia	State/Province	CA	Country of Residence i	US

Mailing Address of Inventor:

Address 1	23716 Via Andorra		
Address 2			
City	Valencia	State/Province	CA
Postal Code	91355	Country i	US

Remove

Inventor 5

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Kelvin	J.	Hasseler	

Residence Information (Select One) (•) US Residency ( ) Non US Residency ( ) Active US Military Service

City	Murrieta	State/Province	CA	Country of Residence i	US

Mailing Address of Inventor:

Address 1	39815 Tinderbox Way		
Address 2			
City	Murrieta	State/Province	CA
Postal Code	92562	Country i	US

Remove

Inventor 6

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Keith		McBride	

Residence Information (Select One) (•) US Residency ( ) Non US Residency ( ) Active US Military Service

City	Ventura	State/Province	CA	Country of Residence i	US

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	BION-051/00US 307799-2244
	Application Number	
Title of Invention	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM	

Mailing Address of Inventor:

Address 1	738 Bennett Avenue		
Address 2			
City	Ventura	**State/Province**	CA
Postal Code	93003	**Country** i	US

Inventor 7 Remove

Legal Name

Prefix	**Given Name**	**Middle Name**	**Family Name**	**Suffix**
	Moshe		Olim	

Residence Information (Select One) (•) US Residency ( ) Non US Residency ( ) Active US Military Service

City	San Diego	**State/Province**	CA	**Country of Residence** i	US

Mailing Address of Inventor:

Address 1	12158 Mannix Road		
Address 2			
City	San Diego	**State/Province**	CA
Postal Code	92129	**Country** i	US

Inventor 8 Remove

Legal Name

Prefix	**Given Name**	**Middle Name**	**Family Name**	**Suffix**
	Perry		Payne	

Residence Information (Select One) (•) US Residency ( ) Non US Residency ( ) Active US Military Service

City	Saugus	**State/Province**	CA	**Country of Residence** i	US

Mailing Address of Inventor:

Address 1	21725 Rose Canyon Lane		
Address 2			
City	Saugus	**State/Province**	CA
Postal Code	91390	**Country** i	US

Inventor 9 Remove

Legal Name

Prefix	**Given Name**	**Middle Name**	**Family Name**	**Suffix**
	Kenneth	A.	Regas	

Residence Information (Select One) (•) US Residency ( ) Non US Residency ( ) Active US Military Service

City	Poway	**State/Province**	CA	**Country of Residence** i	US

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	BION-051/00US 307799-2244
	Application Number	
Title of Invention	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM	

Mailing Address of Inventor:

Address 1	14627 Poway Mesa Drive		
Address 2			
City	Poway	**State/Province**	CA
Postal Code	92064	**Country** i	US

Inventor 10 Remove

Legal Name

Prefix	**Given Name**	**Middle Name**	**Family Name**	**Suffix**
	William	H.	Schwiebert	

Residence Information (Select One) (•) US Residency ( ) Non US Residency ( ) Active US Military Service

City	Escondido	**State/Province**	CA	**Country of Residence** i	US

Mailing Address of Inventor:

Address 1	2498 Briarwood Court		
Address 2			
City	Escondido	**State/Province**	CA
Postal Code	92025	**Country** i	US

Inventor 11 Remove

Legal Name

Prefix	**Given Name**	**Middle Name**	**Family Name**	**Suffix**
	Daniel	Scott	Weinstein	

Residence Information (Select One) (•) US Residency ( ) Non US Residency ( ) Active US Military Service

City	San Diego	**State/Province**	CA	**Country of Residence** i	US

Mailing Address of Inventor:

Address 1	707 10th Avenue, #715		
Address 2			
City	San Diego	**State/Province**	CA
Postal Code	92101	**Country** i	US

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button. Add

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

☐ **An Address is being provided for the correspondence Information of this application.**

Customer Number	58249		
Email Address	zpatdcdocketing@cooley.com	Add Email	Remove Email

EFS Web 2.2.6

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	BION-051/00US 307799-2244
	Application Number	
Title of Invention	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM	

Application Information:

Title of the Invention	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM		
Attorney Docket Number	BION-051/00US 307799-2244	**Small Entity Status Claimed** ☐	
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	34	**Suggested Figure for Publication (if any)**	

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32).
Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Please Select One:	◉ Customer Number	○ US Patent Practitioner	○ Limited Recognition (37 CFR 11.9)
Customer Number	58249		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) or indicate National Stage entry from a PCT application. Providing this information in the application data sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.

Prior Application Status			Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)

Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button. Add

Foreign Priority Information:

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	BION-051/00US 307799-2244
	Application Number	
Title of Invention	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM	

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55(d). When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX) [i] the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(h)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Remove

Application Number	Country [i]	Filing Date (YYYY-MM-DD)	Access Code [i] (if applicable)

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button. Add

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.

Authorization to Permit Access:

☒ Authorization to Permit Access to the Instant Application by the Participating Offices

If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the instant patent application is filed access to the instant patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the instant patent application is filed to have access to the instant patent application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the instant patent application with respect to: 1) the instant patent application-as-filed; 2) any foreign application to which the instant patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the instant patent application; and 3) any U.S. application-as-filed from which benefit is sought in the instant patent application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing this Authorization.

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	BION-051/00US 307799-2244
	Application Number	
Title of Invention	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM	

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Applicant 1 Remove

If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

Clear

(•) Assignee	( ) Legal Representative under 35 U.S.C. 117	( ) Joint Inventor
( ) Person to whom the inventor is obligated to assign.	( ) Person who shows sufficient proprietary interest	

If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor :

If the Applicant is an Organization check here. [X]

Organization Name	Bioness Inc.		
Mailing Address Information:			
Address 1	25103 Rye Canyon Loop		
Address 2			
City	Valencia	**State/Province**	CA
Country [i]	US	Postal Code	91355
Phone Number		Fax Number	
Email Address			

Additional Applicant Data may be generated within this form by selecting the Add button. Add

Non-Applicant Assignee Information:

Providing assignment information in this section does not subsitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	BION-051/00US 307799-2244
	Application Number	
Title of Invention	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM	

Assignee 1

Complete this section only if non-applicant assignee information is desired to be included on the patent application publication in accordance with 37 CFR 1.215(b). Do not include in this section an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest), as the patent application publication will include the name of the applicant(s).

Remove

If the Assignee is an Organization check here. ☐

Prefix	**Given Name**	Middle Name	**Family Name**	Suffix

Mailing Address Information:

Address 1	
Address 2	

City		**State/Province**	
Country i		Postal Code	
Phone Number		Fax Number	
Email Address			

Additional Assignee Data may be generated within this form by selecting the Add button. Add

Signature:

Remove

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

Signature	/Margaret Fischofer/			Date (YYYY-MM-DD)	2014-06-19
First Name	Margaret	Last Name	Fischofer	Registration Number	61689

Additional Signature may be generated within this form by selecting the Add button. Add

This collection of information is required by 37 CFR 1.76. 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 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet 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.**

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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 the Freedom of Information Act requires disclosure of these records.

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 inspections 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
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/745,830	01/20/2013	Arkady Glukhovsky	BION-051/00US 307799-2244

CONFIRMATION NO. 6272

IMPROPER CFR REQUEST

58249
COOLEY LLP
ATTN: Patent Group
1299 Pennsylvania Avenue, NW
Suite 700
Washington, DC 20004

OC000000064510011

Date Mailed: 10/23/2013

RESPONSE TO REQUEST FOR CORRECTED FILING RECEIPT

Power of Attorney, Claims, Fees, System Limitations, and Miscellaneous

In response to your request for a corrected Filing Receipt, the Office is unable to comply with your request because:

- The request to correct inventorship under 37 CFR 1.48(a) is deficient because a new or corrected application data sheet has not been submitted.
- The request to correct inventorship under 37 CFR 1.48(a) filed is deficient because the fee set forth in 37 CFR 1.17(i) has not been submitted.

/zmoguss/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

Aretech LLC - Exhibit 1002, Page 00149

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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 is directed to:

☐ The attached application, or

☒ United States application or PCT international application number 13/745,830

filed on 01/20/2013.

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.

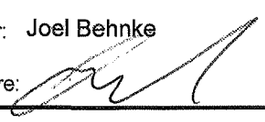
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

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 INVENTOR

Inventor: Joel Behnke

Signature: 

Date (Optional): 11/18/2013

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

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. 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 1 minute 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.**

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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 is directed to:

☐ The attached application, or

☒ United States application or PCT international application number 13/745,830

filed on 01/20/2013.

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 INVENTOR

Inventor: Todd Cushman Date (Optional) :

Signature: 1-6-14

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

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. 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 1 minute 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.

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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 is directed to:

☐ The attached application, or

☒ United States application or PCT international application number 13/745,830

filed on 01/20/2013.

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 INVENTOR

Inventor: Erol Erturk Date (Optional): 2/5/2014

Signature: Erol Erturk

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

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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 is directed to:

☐ The attached application, or

☒ United States application or PCT international application number 13/745,830

filed on 01/20/2013.

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.

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LEGAL NAME OF INVENTOR

Inventor: Arkady Glukhovsky

Date (Optional): 1/10/2014

Signature:

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LEGAL NAME OF INVENTOR

Inventor: Kelvin J. Hasseler Date (Optional): 02/05/2014

Signature: Kelvin Hasseler

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LEGAL NAME OF INVENTOR

Inventor: Keith McBride

Signature: Keith M Bride

Date (Optional): 1/15/2014

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LEGAL NAME OF INVENTOR

Inventor: Moshe Olim

Date (Optional): Feb 5, 2014

Signature: M. Olim

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LEGAL NAME OF INVENTOR

Inventor: Perry Payne Date (Optional): 09 JUNE 2014

Signature: P. Payne

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LEGAL NAME OF INVENTOR

Inventor: Kenneth A. Regas

Signature: Kenneth A. Regas

Date (Optional): February 5, 2014

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

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LEGAL NAME OF INVENTOR

Inventor: William H. Schwiebert

Signature: William H. Schwiebert

Date (Optional): 2-5-2014

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LEGAL NAME OF INVENTOR

Inventor: Daniel Scott Weinstein Date (Optional): 2/5/2014

Signature:

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EFS ID:	19424608
Application Number:	13745830
International Application Number:	
Confirmation Number:	6272
Title of Invention:	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM
First Named Inventor/Applicant Name:	Arkady Glukhovsky
Customer Number:	58249
Filer:	Margaret Fischofer/Rebecca Phelan
Filer Authorized By:	Margaret Fischofer
Attorney Docket Number:	BION-051/00US 307799-2244
Receipt Date:	26-JUN-2014
Filing Date:	20-JAN-2013
Time Stamp:	17:16:50
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		BION-051-00US-IDS.pdf	276212 e02ba872864237b7afb1d8713683b7e2deba2a4c	yes	4

	Multipart Description/PDF files in .zip description		
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	Transmittal Letter	1	2
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2	Non Patent Literature	BION-051-00WO-ISRWO.pdf	607238 04027f3adb8a2b71568dfb80011edc842bd5fe41	no	8
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New Applications Under 35 U.S.C. 111
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.

National Stage of an International Application under 35 U.S.C. 371
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.

New International Application Filed with the USPTO as a Receiving Office
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.

Attorney Docket No. BION-051/00US 307799-2244 **PATENT**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:	BEHNKE, Joel, et al.	Confirmation No.:	6272
Application No.:	13/745,830	Group Art Unit:	3673
Filed:	January 20, 2013	Examiner:	Eric J. Kurilla

FOR: **METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM**

VIA EFS
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.97(b)

In accordance with the duty of disclosure set forth in 37 C.F.R. §1.56, Applicant(s) hereby submits the following information in conformance with 37 C.F.R. §§1.97 and 1.98.

☒ Pursuant to 37 C.F.R. §1.98, a copy of each non-US patent document cited in the attached Form PTO/SB/08 is enclosed.

☐ No copies of the publications listed on the attached Form PTO/SB/08 are being provided pursuant to 37 C.F.R. §1.98(d) because the publications were previously cited by or submitted to the Office in prior Application Serial No. _____ to which the above-identified application claims priority under 35 U.S.C. §120.

☒ No copies of any U.S. patents or U.S. patent application publications listed on the attached Form PTO/SB/08 are being provided pursuant to 37 C.F.R. §1.98.

☒ Publications A1-A3 listed on the attached Form PTO/SB/08 were cited in a foreign search or examination report corresponding to International application serial no. PCT/US2014/012064 and mailed on May 9, 2014.

☐ Enclosed is a copy of a non-English publication(s) _____ Pursuant to §609 of the M.P.E.P., Applicant submits the attached foreign search or examination report, which cites such non-English language publication(s).

☐ Enclosed is a copy of a non-English publication(s) _____ English language publication _____ (copy enclosed) claims priority from this non-English publication.

☐ Enclosed is an explanation of non-English publication(s) _____ for which an English translation is not available.

☐ Enclosed is an English translation of non-English publication(s) _____ cited in the attached Form PTO/SB/08.

☐ Enclosed is a copy of pending patent Application Serial No. _____.

This Information Disclosure Statement is filed within any one of the following time periods:

☐ within three months from the filing date of this national application other than a CPA under 37 C.F.R. § 1.53(d);

☐ within three months from the date of entry of the national stage as set forth in 37 C.F.R. §1.491 in this international application;

☒ before the mailing date of a first office action on the merits; or

☐ before the mailing of a first office action after the filing of a request for continued examination under 37 C.F.R. § 1.114.

It is respectfully requested that the Examiner consider the above-noted information and return an initialed copy of the attached Form PTO/SB/08 to the undersigned.

Dated: June 26, 2014

Respectfully submitted,
COOLEY LLP

COOLEY LLP
ATTN: Patent Group
1299 Pennsylvania Avenue NW, Suite 700
Washington, DC 20004

Tel: (703) 456-8113
Fax: (202) 842-7899

By: Margaret S. Fischofer
Margaret S. Fischofer
Reg. No. 61,689

108476452 v1

PTO/SB/08a (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 2

Complete if Known	
Application Number	13/745,830
Filing Date	01/20/2013
First Named Inventor	BEHNKE, Joel
Art Unit	3673
Examiner Name	Eric J. Kurilla
Attorney Docket Number	BION-051/00US 307799-2244

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A1.	4,243,147	01-06-1981	Twitchell et al.	
	A2.	7,137,771	11-21-2006	Maurer et al.	
	A3.	7,883,450	02-08-2011	Hidler	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3] "Number[4] "Kind Code[5] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

Examiner Signature		Date Considered	

*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.

This collection of information is required by 37 CFR 1.97 and 1.98. 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 2 hours 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, 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.

American LegalNet, Inc.
www.FormsWorkFlow.com

PTO/SB/08b (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Apt of 1995 no Persons are required to respond to a collection of information unless it contains a valid OMR control number.

Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 2 of 2

Complete if Known	
Application Number	13/745,830
Filing Date	01/20/2013
First Named Inventor	BEHNKE, Joel
Art Unit	3673
Examiner Name	Eric J. Kurilla
Attorney Docket Number	BION-051/00US 307799-2244

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]
	C1.	International Search Report and Written Opinion for International Application No. PCT/US2014/012064, mailed May 9, 2014	

Examiner Signature		Date Considered	

*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] Applicant is to place a check mark here if English language Translation is attached.
This collection of information is required by 37 CFR 1.98. 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 2 hours 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, 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.

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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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/745,830	01/20/2013	Arkady Glukhovsky	BION-051/00US 307799-2244

CONFIRMATION NO. 6272

IMPROPER CFR REQUEST

58249
COOLEY LLP
ATTN: Patent Group
1299 Pennsylvania Avenue, NW
Suite 700
Washington, DC 20004

OC000000069167632

Date Mailed: 06/27/2014

RESPONSE TO REQUEST FOR CORRECTED FILING RECEIPT

Power of Attorney, Claims, Fees, System Limitations, and Miscellaneous

In response to your request for a corrected Filing Receipt, the Office is unable to comply with your request because:

- The request to correct inventorship under 37 CFR 1.48(a) is deficient because a corrected or updated application data sheet (ADS) (or a supplemental ADS for applications filed before 9/16/12) in compliance with 37 CFR 1.76 (including markings showing the changes) has not been submitted. Any renewed request must include a corrected or updated ADS (or supplemental ADS for applications filed before 9/16/12) in compliance with 37 CFR 1.76 that identifies the information being changed, with underlining for insertions, and strike-through or brackets for text removed.
- The ADS submitted on ___06/19/14_____ was not properly marked up to show the desired changes. For information being changed relative to the information already of record, additions must be shown with underlining, and deletions must be shown with strike-through or brackets. See 37 CFR 1.76(c)(2)

/nton/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

Aretech LLC - Exhibit 1002, Page 00167

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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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/745,830	01/20/2013	Arkady Glukhovsky	BION-051/00US 307799-2244

CONFIRMATION NO. 6272

IMPROPER CPOA LETTER

58249
COOLEY LLP
ATTN: Patent Group
1299 Pennsylvania Avenue, NW
Suite 700
Washington, DC 20004

OC000000069167763

Date Mailed: 06/27/2014

NOTICE REGARDING POWER OF ATTORNEY

This is in response to the power of attorney filed 06/19/2014. The power of attorney in this application is not accepted for the reason(s) listed below:

- The power of attorney has not been accepted because the party who is giving power has not been identified. Power of attorney may only be signed by the applicant for patent (37 CFR 1.42) or the patent owner. A party who is not the applicant must become the applicant in accordance with 37 CFR 1.46(c) and appoint any power of attorney in compliance with 37 CFR 3.71 and 3.73. For a reissue application, reexamination proceeding, or supplemental examination proceeding, a patent owner who was not the applicant under 37 CFR 1.46 must appoint any power of attorney in compliance with 37 CFR 3.71 and 3.73. See 37 CFR 1.32(b)(4).

/nton/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

Aretech LLC - Exhibit 1002, Page 00168

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/745,830	01/20/2013	Arkady Glukhovsky	BION-051/00US 307799-2244

CONFIRMATION NO. 6272

58249
COOLEY LLP
ATTN: Patent Group
1299 Pennsylvania Avenue, NW
Suite 700
Washington, DC 20004

PUBLICATION NOTICE

OC000000069790784

Title:METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM

Publication No.US-2014-0201905-A1
Publication Date:07/24/2014

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be accessed through the USPTO's publically available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently http://www.uspto.gov/patft/.

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Office of Public Records. The Office of Public Records can be reached by telephone at (703) 308-9726 or (800) 972-6382, by facsimile at (703) 305-8759, by mail addressed to the United States Patent and Trademark Office, Office of Public Records, Alexandria, VA 22313-1450 or via the Internet.

In addition, information on the status of the application, including the mailing date of Office actions and the dates of receipt of correspondence filed in the Office, may also be accessed via the Internet through the Patent Electronic Business Center at www.uspto.gov using the public side of the Patent Application Information and Retrieval (PAIR) system. The direct link to access this status information is currently http://pair.uspto.gov/. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of PAIR.

Further assistance in electronically accessing the publication, or about PAIR, is available by calling the Patent Electronic Business Center at 1-866-217-9197.

Office of Data Managment, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

Aretech LLC - Exhibit 1002, Page 00169

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/745,830	01/20/2013	Arkady Glukhovsky	BION-051/00US 307799-2244	6272

58249 7590 01/29/2015

COOLEY LLP
ATTN: Patent Group
1299 Pennsylvania Avenue, NW
Suite 700
Washington, DC 20004

EXAMINER	
KURILLA, ERIC J	

ART UNIT	PAPER NUMBER
3673	

NOTIFICATION DATE	DELIVERY MODE
01/29/2015	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):

zpatdcdocketing@cooley.com

Aretech LLC - Exhibit 1002, Page 00170

Office Action Summary	Application No. 13/745,830	Applicant(s) GLUKHOVSKY, ARKADY	
	Examiner ERIC KURILLA	Art Unit 3673	AIA (First Inventor to File) Status No

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *2* MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *01/20/2013*.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL**. 2b)☐ This action is non-final.

3)☐ 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.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5)☒ Claim(s) *1-21* is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6)☐ Claim(s) _____ is/are allowed.

7)☐ Claim(s) _____ is/are rejected.

8)☐ Claim(s) _____ is/are objected to.

9)☒ Claim(s) *1-21* are subject to restriction and/or election requirement.

* If any claims have been determined allowable, 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.

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ 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)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)

2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .

4) ☐ Other: _____.

DETAILED ACTION

Election/Restrictions

1. This application contains claims directed to the following patentably distinct species: Species I: Figs. 2-34, Species II: Figs 35-36, Species III: Fig. 37. The species are independent or distinct because each species contain different structures that would result in a burdensome search, e.g. Fig. 35 includes a cylinder, Fig. 37 includes a closed loop track, neither of which are present in Figs. 2-34. In addition, these species are not obvious variants of each other based on the current record.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species, or a single grouping of patentably indistinct species, for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 1, 2, 5-8, and 17-20 are believed to be generic.

There is a search and/or examination burden for the patentably distinct species as set forth above because at least the following reason(s) apply: There is an examination and search burden for these patentably distinct species due to their mutually exclusive characteristics. The species require a different field of search (e.g., searching different classes/subclasses or electronic resources, or employing different search queries); and/or the prior art applicable to one species would not likely be applicable to another species; and/or the species are likely to raise different non-prior art issues under 35 U.S.C. 101 and/or 35 U.S.C. 112, first paragraph.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species to be examined even though the requirement

may be traversed (37 CFR 1.143) **and (ii) identification of the claims encompassing the elected species or grouping of patentably indistinct species**, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

The election may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the election of species requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected species or grouping of patentably indistinct species.

Should applicant traverse on the ground that the species, or groupings of patentably indistinct species from which election is required, are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing them to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the species unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103 or pre-AIA 35 U.S.C. 103(a) of the other species.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ERIC KURILLA whose telephone number is (571)270-7294. The examiner can normally be reached on Monday-Thursday 7:30AM-6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Pete Cuomo can be reached on 571-272-6856. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/E. K./
Examiner, Art Unit 3673

/Nicholas Polito/
Primary Examiner, Art Unit 3673

1/24/2015

Electronic Acknowledgement Receipt	
EFS ID:	21900885
Application Number:	13745830
International Application Number:	
Confirmation Number:	6272
Title of Invention:	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM
First Named Inventor/Applicant Name:	Arkady Glukhovsky
Customer Number:	58249
Filer:	Margaret Fischofer/Rebecca Phelan
Filer Authorized By:	Margaret Fischofer
Attorney Docket Number:	BION-051/00US 307799-2244
Receipt Date:	27-MAR-2015
Filing Date:	20-JAN-2013
Time Stamp:	15:55:46
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$140
RAM confirmation Number	2496
Deposit Account	501283
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees)

Charge any Additional Fees required under 37 C.F.R. Section 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	Response to Election / Restriction Filed	BION-051-00US-RestrictionResponse.pdf	80340 f53094472ba4f2552c3456b1ae7c2227cc998c0e	no	2
Warnings:					
Information:					
2	Request under Rule 48 correcting inventorship	BION-051-00US-RenewedRequest.pdf	71713 9df622bfbcfa4de470c5e5f642a8b0c7b283a16f	no	2
Warnings:					
Information:					
3	Application Data Sheet	BION-051-00US-SupplementalADS.pdf	825505 fc1711938c995d326fb81a69cecb0a7de082e21f	no	9
Warnings:					
Information:					
This is not an USPTO supplied ADS fillable form					
4	Oath or Declaration filed	BION-051-00US-Declaration.pdf	1399142 19db38bbc6c743538b769609cbbcadf7761d75bf	no	11
Warnings:					
Information:					
5	Power of Attorney	BION-051-00US-Power.pdf	1019381 ac262534e0cb60eeaf45def8f1a1e3ffa184b705	no	15
Warnings:					
Information:					
6	Fee Worksheet (SB06)	fee-info.pdf	30869 1d5d585ac4371b3c6f36cd787e319218224478c4	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	3426950		

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.

New Applications Under 35 U.S.C. 111
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.

National Stage of an International Application under 35 U.S.C. 371
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.

New International Application Filed with the USPTO as a Receiving Office
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.

Electronic Patent Application Fee Transmittal

Application Number:	13745830
Filing Date:	20-Jan-2013
Title of Invention:	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM
First Named Inventor/Applicant Name:	Arkady Glukhovsky
Filer:	Margaret Fischofer/Rebecca Phelan
Attorney Docket Number:	BION-051/00US 307799-2244

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:				
PROCESSING FEE, EXCEPT PROV. APPLS.	1830	1	140	140
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		**140**

Attorney Docket No: BION-051/00US 307799-2244 **PATENT**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of	Arkady GLUKHOVSKY et al.	Confirmation No.:	6272
Serial No.:	13/745,830	Group Art Unit:	3673
Filed:	January 20, 2013	Examiner:	Eric J. Kurilla

For **SYSTEM FOR TRANSMITTING ELECTRICAL CURRENT TO A BODILY TISSUE**

U.S. Patent and Trademark Office, via EFS
Randolph Building
401 Dulany Street
Alexandria, VA 22314

RENEWED REQUEST TO CORRECT INVENTORSHIP

UNDER 37 C.F.R. § 1.48(a)

Applicant filed a Request to Correct Inventorship Under 37 C.F.R. § 1.48(a) ("the Request") in connection with the above-identified application on June 19, 2014. On June 27, 2014, the Office mailed a Response to Request for Corrected Filing Receipt indicating that the Request was deficient because the application data sheet (ADS) concurrently filed with the Request was not properly marked up to show the desired changes. Accordingly, Applicant respectfully submits this renewed request for correction of inventorship of the above- application.

It is requested that Joel Behnke, Todd Cushman, Erol Erturk, Kelvin J. Hasseler, Keith McBride, Moshe Olim, Perry Payne, Kenneth A. Regas, William H. Schwiebert, and Daniel Scott Weinstein be added as co-inventors.

This request is accompanied by:

1. Application Data Sheet as required by 37 C.F.R. § 1.48(a)(1);

2. Declaration from all inventors as required by 37 C.F.R. § 1.48(b); and

3. The processing fee as required by 37 C.F.R. § 1.48(a)(2) and set forth in 37 C.F.R. § 1.17(i).

The Commissioner 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.

Dated: March 27, 2015

Respectfully submitted,
COOLEY LLP

By: _____ Reg. No. 42881
Margaret S. Fischofer
Reg. No. 61,689

COOLEY LLP
ATTN: Patent Group
1299 Pennsylvania Avenue NW, Suite 700
Washington, DC 20004

Tel: (703) 456-8113
Fax: (202) 842-7899

108212331 v1

Attorney Docket No. BION-051/00US 307799-2244 **PATENT**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:	Arkady GLUKHOVSKY	Confirmation No.:	6272
Serial No.:	13/745,830	Group Art Unit:	3673
Filed:	January 20, 2013	Examiner:	Not yet assigned

FOR: **METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

POWER BY ASSIGNEE AND STATEMENT UNDER 37 C.F.R. §3.73(b)

The Assignee of the entire right, title, and interest in the above-identified application hereby grants the registered practitioners of Cooley LLP included in the Customer Number provided below power to act, prosecute, and transact all business in the U.S. Patent and Trademark Office in connection with this application, any applications claiming priority to this application, and any patents issuing therefrom.

The Assignee certifies that to the best of its knowledge and belief it is the owner of the entire right, title, and interest in and to the above-identified application as evidenced by:

☒ An assignment document, a copy of which is enclosed herewith and is being recorded with the U.S. Patent and Trademark Office concurrently herewith;

☐ An assignment previously recorded in the U.S. Patent and Trademark Office at Reel ___, Frame ___.

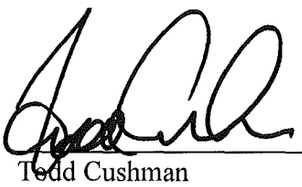
Please direct all telephone calls and correspondence to:

CUSTOMER NUMBER: **58249**

COOLEY LLP
ATTN: Patent Group
1299 Pennsylvania Avenue NW, Suite 700
Washington, DC 20004
Tel: (703) 456-8000
Fax: (202) 842-7899

The undersigned (whose title is supplied below) is empowered to sign this statement on behalf of the Assignee.

Date: 06/17/14

Signature: 

Name: Todd Cushman
Title: CEO
Company: Bioness Inc.

549332 v1/RE

Attorney Docket No. BION-051/00US 307799-2244 **PATENT**

ASSIGNMENT

Joel Behnke, residing at 23038 Edenton Place, Valencia, CA 91354, **Todd Cushman**, residing at 6 San Miguel, Coto de Caza, CA 92679, **Erol Erturk**, residing at 403 Sheffield Avenue, Cardiff, CA 92007, **Arkady Glukhovsky**, residing at 23716 Via Andorra, Valencia, CA 91355, **Kelvin J. Hasseler**, residing at 39815 Tinderbox Way, Murrieta, CA 92562, **Keith McBride**, residing at 738 Bennett Avenue, Ventura, CA 93003, **Moshe Olim**, residing at 12158 Mannix Road, San Diego, CA 92129, **Perry Payne**, residing at 21725 Rose Canyon Lane, Saugus, CA 91390, **Kenneth A. Regas**, residing at 14627 Poway Mesa Drive, Poway CA 92064, **William H. Schweibert**, residing at 2498 Briarwood Court, Escondido, CA 92025, and **Daniel Scott Weinstein**, residing at 707 10th Avenue, #715, San Diego, CA 92101 (each referred to as "Assignor") have made an invention(s) (the "Invention(s)") set forth in an application for patent of the United States, entitled **METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM**, and which is a:

(1) ☐ provisional application
- (a) ☐ to be filed herewith; or
- (b) ☐ bearing Application No. , and filed on ; or

(2) ☒ non-provisional application
- (a) ☐ to be filed herewith; or
- (b) ☒ bearing Application No. 13/745,830, and filed on January 20, 2013.

WHEREAS, Bioness Inc., a corporation duly organized under and pursuant to the laws of California, and having its principal place of business at 25103 Rye Canyon Loop, Valencia, CA 91355 (the "Assignee"), is desirous of acquiring the entire right, title, and interest in: the Invention; the application for patent identified in paragraph (1) or (2); the right to file applications for patent of the United States or other countries on the Invention; any application for patent of the United States or other countries claiming priority to these application; any provisional or other right to recover damages, including royalties, for prior infringements of these applications; and any patent of the United States or other countries that may be granted therefor or thereon.

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, and to the extent that the Assignor has not done so already via a prior agreement with the Assignee, or if the Assignor has already done so via a prior agreement with the Assignee then in confirmation of any obligation to do so in said prior agreement, the Assignor has sold, assigned, transferred, and set over, and by these presents does sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns, the Assignor's entire right, title, and interest in:

(a) the Invention(s);

(b) the application for patent identified in paragraph (1) or (2);

(c) the right to file applications for patent of the United States or other countries on the Invention(s), including all rights under the Hague Convention, the Paris Convention for the Protection of Industrial Property and under the Patent Cooperation Treaty;

(d) any application(s) for patent of the United States or other countries claiming the Invention(s);

(e) any application(s) for patent of the United States or other countries claiming priority to the application for patent identified in paragraph (1) or (2) or any application(s) for patent claiming the Invention(s), including any division(s), continuation(s), and continuation(s)-in-part;

(f) any provisional or other right to recover damages, including royalties, for prior infringements of any application for patent identified in the preceding paragraphs (b)-(e); and

(g) any patent(s) of the United States or other countries that may be granted for or on any application for patent identified in the preceding paragraphs (b) – (e), including any reissue(s) and extension(s) of said patent(s).

The above-granted rights, titles, and interests are to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, as fully and entirely as the same would have been held and enjoyed by the Assignor had this sale and assignment not been made.

The Assignor hereby represents to the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, or if applicable, at such time said prior agreement was executed, the Assignor is a lawful owner of an undivided interest in the entire right, title, and interest in and to the Invention(s), that the Invention(s) are unencumbered, except, if applicable, by obligation to assign in accordance with said prior agreement, and that the Assignor has good and full right and lawful authority to sell and convey the same in the manner set forth herein.

The Assignor hereby covenants and agrees to and with the Assignee, its successors, legal representatives, and assigns, that the Assignor will sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done in connection with any and all proceedings for the procurement, maintenance, enforcement and defense of the Invention(s), said applications, and said patents, including interference proceedings, without charge to the Assignor, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns.

The Assignor hereby requests the Commissioner of Patents to issue said patents of the United States to the Assignee for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

Date: 01/15/14 By: _____
Joel Behnke

State of California)
) ss.
County of Los Angeles)

On January 15, 2014, before me, LINDA S. GONZALEZ, Notary Public, personally appeared JOEL N. BEHNKE, who proved to me on the basis of satisfactory evidence, to be the person(~~s~~) whose name(~~s~~) is/~~are~~ subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(~~ies~~), and that by his/~~her/their~~ signature(~~s~~) on the instrument the person(~~s~~), or the entity upon behalf of which the person(~~s~~) acted, executed the instrument.

REQUIRED SENTENCE IF NOTARIZED IN CALIFORNIA: I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

LINDA S. GONZALEZ
Commission # 1944340
Notary Public - California
Los Angeles County
My Comm. Expires Jul 20, 2015

Signature of Notary Public

Place Notary Seal Above

My Commission Expires: July 20, 2015

Date: 1-6-14 By: _____
Todd Cushman

State of California)
) ss.
County of Los Angeles)

On Jan 6, 2014, before me, LINDA S. GONZÁLEZ, Notary Public, personally appeared TODD C. CUSHMAN, who proved to me on the basis of satisfactory evidence, to be the person(~~s~~) whose name(~~s~~) is/~~are~~ subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(~~ies~~), and that by his/~~her/their~~ signature(~~s~~) on the instrument the person(~~s~~), or the entity upon behalf of which the person(~~s~~) acted, executed the instrument.

REQUIRED SENTENCE IF NOTARIZED IN CALIFORNIA: I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

LINDA S. GONZALEZ
Commission # 1944340
Notary Public - California
Los Angeles County
My Comm. Expires Jul 20, 2015

Signature of Notary Public

Place Notary Seal Above

My Commission Expires: 07-20-2015

Date: 2/5/2014 By: Erol Erturk
Erol Erturk

State of California)
) ss.
County of San Diego)

On February 5th 2014 before me, Joshua Anthony Bolles Notary Public, personally appeared Erol Erturk, who proved to me on the basis of satisfactory evidence, to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

REQUIRED SENTENCE IF NOTARIZED IN CALIFORNIA: I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature of Notary Public

Place Notary Seal Above

My Commission Expires: 03/31/2017

OFFICIAL SEAL
JOSHUA ANTHONY BOLLES
NOTARY PUBLIC-CALIFORNIA
COMM. NO. 2017060
SAN DIEGO COUNTY
MY COMM. EXP. MARCH 31, 2017

Date: 1/10/2014 By: _____
Arkady Glukhovsky

State of CALIFORNIA)
) ss.
County of LOS ANGELES)

On January 10, 2014, before me, LINDA S. GONZALEZ, Notary Public, personally appeared ARKADY GLUKHOVSKY, who proved to me on the basis of satisfactory evidence, to be the person~~(s)~~ whose name~~(s)~~ is/~~are~~ subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/her/their authorized capacity~~(ies)~~, and that by his/~~her/their~~ signature~~(s)~~ on the instrument the person~~(s)~~, or the entity upon behalf of which the person~~(s)~~ acted, executed the instrument.

REQUIRED SENTENCE IF NOTARIZED IN CALIFORNIA: I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

LINDA S. GONZALEZ
Commission # 1944340
Notary Public - California
Los Angeles County
My Comm. Expires Jul 20, 2015

Signature of Notary Public

Place Notary Seal Above

My Commission Expires: 07-20-2015

Date: 02/05/2014 By: Kelvin J Hasseler
Kelvin J. Hasseler

State of California)
) ss.
County of San Diego)

On February 5th 2014, before me, Joshua Anthony Bolles Notary Public, personally appeared Kelvin J. Hasseler, who proved to me on the basis of satisfactory evidence, to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

REQUIRED SENTENCE IF NOTARIZED IN CALIFORNIA: I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature of Notary Public

Place Notary Seal Above

My Commission Expires: 03/31/2017

OFFICIAL SEAL
JOSHUA ANTHONY BOLLES
NOTARY PUBLIC-CALIFORNIA
COMM. NO. 2017060
SAN DIEGO COUNTY
MY COMM. EXP. MARCH 31, 2017

Date: 1/15/2014 By: _____
Keith McBride

State of California)
County of Los Angeles) ss.

On January 16, 2014, before me, LINDA S. GONZALEZ Notary Public, personally appeared SEAN KEITH McBRIDE, who proved to me on the basis of satisfactory evidence, to be the person~~(s)~~ whose name~~(s)~~ is/~~are~~ subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity~~(ies)~~, and that by his/~~her/their~~ signature~~(s)~~ on the instrument the person~~(s)~~, or the entity upon behalf of which the person~~(s)~~ acted, executed the instrument.

REQUIRED SENTENCE IF NOTARIZED IN CALIFORNIA: I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Linda S. Gonzalez
Signature of Notary Public

LINDA S. GONZALEZ
Commission # 1944340
Notary Public - California
Los Angeles County
My Comm. Expires Jul 20, 2015

Place Notary Seal Above

My Commission Expires: July 20, 2015

Date: Feb 5, 2014 By: _____
Moshe Olim

State of CA)
) ss.
County of San Diego)

On February 5th 2015, before me, Joshua Anthony Bolles Notary Public, personally appeared Moshe Olim, who proved to me on the basis of satisfactory evidence, to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

REQUIRED SENTENCE IF NOTARIZED IN CALIFORNIA: I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

_____
Signature of Notary Public

Place Notary Seal Above

My Commission Expires: 03/31/2017

OFFICIAL SEAL
JOSHUA ANTHONY BOLLES
NOTARY PUBLIC-CALIFORNIA
COMM. NO. 2017060
SAN DIEGO COUNTY
MY COMM. EXP. MARCH 31, 2017

Date: 13 June 2014 By: _____
Perry Payne

State of CALIFORNIA)
) ss.
County of LOS ANGELES)

On JUNE 13, 2014, before me, SIDDIQA AZAM, Notary Public, personally appeared PERRY PAYNE, who proved to me on the basis of satisfactory evidence, to be the person(~~s~~) whose name(~~s~~) is/~~are~~ subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(~~ies~~), and that by his/~~her/their~~ signature(~~s~~) on the instrument the person(~~s~~), or the entity upon behalf of which the person(~~s~~) acted, executed the instrument.

REQUIRED SENTENCE IF NOTARIZED IN CALIFORNIA: I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

SIDDIQA AZAM
COMM. # 1934512
NOTARY PUBLIC - CALIFORNIA
LOS ANGELES COUNTY
MY COMM. EXP. APR. 30, 2015

_____
Signature of Notary Public

Place Notary Seal Above

My Commission Expires: APRIL 30, 2015

Date: February 5, 2014 By: Kenneth A. Regas
Kenneth A. Regas

State of California)
) ss.
County of San Diego)

On February 5th, before me, Joshua Anthony Bolles Notary Public, personally appeared Kenneth A. Regas, who proved to me on the basis of satisfactory evidence, to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

REQUIRED SENTENCE IF NOTARIZED IN CALIFORNIA: I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature of Notary Public

Place Notary Seal Above

My Commission Expires: 03/31/2017

OFFICIAL SEAL
JOSHUA ANTHONY BOLLES
NOTARY PUBLIC-CALIFORNIA
COMM. NO. 2017060
SAN DIEGO COUNTY
MY COMM. EXP. MARCH 31, 2017

Date: 2-5-2014 By: William H. Schwiebert
William H. Schwiebert

State of California)
) ss.
County of San Diego)

On February 5th 2014 before me, Joshua Anthony Bolles Notary Public, personally appeared William H. Schwiebert, who proved to me on the basis of satisfactory evidence, to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

REQUIRED SENTENCE IF NOTARIZED IN CALIFORNIA: I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature of Notary Public

Place Notary Seal Above

My Commission Expires: 03/31/2017

OFFICIAL SEAL
JOSHUA ANTHONY BOLLES
NOTARY PUBLIC-CALIFORNIA
COMM. NO. 2017060
SAN DIEGO COUNTY
MY COMM. EXP. MARCH 31, 2017

Date: 2/5/2014 By: _____
Daniel Scott Weinstein

State of California)
) ss.
County of San Diego)

On February 5th 2014 before me, Joshua Anthony Bolles Notary Public, personally appeared Daniel Scott Weinstein, who proved to me on the basis of satisfactory evidence, to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

REQUIRED SENTENCE IF NOTARIZED IN CALIFORNIA: I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

_____
Signature of Notary Public

Place Notary Seal Above

My Commission Expires: 03/31/2017

OFFICIAL SEAL
JOSHUA ANTHONY BOLLES
NOTARY PUBLIC-CALIFORNIA
COMM. NO. 2017060
SAN DIEGO COUNTY
MY COMM. EXP. MARCH 31, 2017

551650 v1/RE

PTO/AIA/14 (03-13)
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Supplemental **Application Data Sheet 37 CFR 1.76**	Attorney Docket Number	BION-051/00US 307799-2244
	Application Number	13/745,830
Title of Invention	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM	

The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.
This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.

Secrecy Order 37 CFR 5.2

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Joel		Behnke	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Valencia	State/Province	CA	Country of Residence	US

Mailing Address of Inventor:

Address 1	23038 Edenton Place		
Address 2			
City	Valencia	State/Province	CA
Postal Code	91354	Country	US

Inventor 2 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Todd		Cushman	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Coto de Caza	State/Province	CA	Country of Residence	US

Mailing Address of Inventor:

Address 1	6 San Miguel		
Address 2			
City	Coto de Caza	State/Province	CA
Postal Code	92679	Country	US

Inventor 3 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Erol		Erturk	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

PTO/AIA/14 (03-13)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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Supplemental **Application Data Sheet 37 CFR 1.76**	Attorney Docket Number	BION-051/00US 307799-2244
	Application Number	13/745,830
Title of Invention	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM	

City	Cardiff	State/Province	CA	Country of Residence	US

Mailing Address of Inventor:

Address 1	403 Sheffield Avenue		
Address 2			
City	Cardiff	State/Province	CA
Postal Code	92007	Country	US

Remove

Inventor 4

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Arkady		Glukhovsky	

Residence Information (Select One) (•) US Residency ( ) Non US Residency ( ) Active US Military Service

City	Valencia	State/Province	CA	Country of Residence	US

Mailing Address of Inventor:

Address 1	23716 Via Andorra		
Address 2			
City	Valencia	State/Province	CA
Postal Code	91355	Country	US

Remove

Inventor 5

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Kelvin	J.	Hasseler	

Residence Information (Select One) (•) US Residency ( ) Non US Residency ( ) Active US Military Service

City	Murrieta	State/Province	CA	Country of Residence	US

Mailing Address of Inventor:

Address 1	39815 Tinderbox Way		
Address 2			
City	Murrieta	State/Province	CA
Postal Code	92562	Country	US

Remove

Inventor 6

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Keith		McBride	

Residence Information (Select One) (•) US Residency ( ) Non US Residency ( ) Active US Military Service

City	Ventura	State/Province	CA	Country of Residence	US

PTO/AIA/14 (03-13)
Approved for use through 01/31/2014. OMB 0651-0032
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 contains a valid OMB control number.

Supplemental **Application Data Sheet 37 CFR 1.76**	Attorney Docket Number	BION-051/00US 307799-2244
	Application Number	13/745,830
Title of Invention	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM	

Mailing Address of Inventor:

Address 1	738 Bennett Avenue		
Address 2			
City	Ventura	**State/Province**	CA
Postal Code	93003	**Country** i	US

Inventor 7 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Moshe		Olim	

Residence Information (Select One) (•) US Residency ( ) Non US Residency ( ) Active US Military Service

City	San Diego	**State/Province**	CA	**Country of Residence** i	US

Mailing Address of Inventor:

Address 1	12158 Mannix Road		
Address 2			
City	San Diego	**State/Province**	CA
Postal Code	92129	**Country** i	US

Inventor 8 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Perry		Payne	

Residence Information (Select One) (•) US Residency ( ) Non US Residency ( ) Active US Military Service

City	Saugus	**State/Province**	CA	**Country of Residence** i	US

Mailing Address of Inventor:

Address 1	21725 Rose Canyon Lane		
Address 2			
City	Saugus	**State/Province**	CA
Postal Code	91390	**Country** i	US

Inventor 9 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Kenneth	A.	Regas	

Residence Information (Select One) (•) US Residency ( ) Non US Residency ( ) Active US Military Service

City	Poway	**State/Province**	CA	**Country of Residence** i	US

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Supplemental **Application Data Sheet 37 CFR 1.76**	Attorney Docket Number	BION-051/00US 307799-2244
	Application Number	13/745,830
Title of Invention	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM	

Mailing Address of Inventor:

Address 1	14627 Poway Mesa Drive		
Address 2			
City	Poway	**State/Province**	CA
Postal Code	92064	**Country** i	US

Inventor 10 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	William	H.	Schwiebert	

Residence Information (Select One) (•) US Residency ( ) Non US Residency ( ) Active US Military Service

City	Escondido	State/Province	CA	Country of Residence i	US

Mailing Address of Inventor:

Address 1	2498 Briarwood Court		
Address 2			
City	Escondido	**State/Province**	CA
Postal Code	92025	**Country** i	US

Inventor 11 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Daniel	Scott	Weinstein	

Residence Information (Select One) (•) US Residency ( ) Non US Residency ( ) Active US Military Service

City	San Diego	State/Province	CA	Country of Residence i	US

Mailing Address of Inventor:

Address 1	707 10th Avenue, #715		
Address 2			
City	San Diego	**State/Province**	CA
Postal Code	92101	**Country** i	US

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button. Add

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

☐ **An Address is being provided for the correspondence Information of this application.**

Customer Number	58249		
Email Address	zpatdcdocketing@cooley.com	Add Email	Remove Email

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Supplemental **Application Data Sheet 37 CFR 1.76**	Attorney Docket Number	BION-051/00US 307799-2244
	Application Number	13/745,830
Title of Invention	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM	

Application Information:

Title of the Invention	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM		
Attorney Docket Number	BION-051/00US 307799-2244	**Small Entity Status Claimed** ☐	
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	34	**Suggested Figure for Publication (if any)**	

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32).
Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Please Select One:	◉ Customer Number	○ US Patent Practitioner	○ Limited Recognition (37 CFR 11.9)
Customer Number	58249		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) or indicate National Stage entry from a PCT application. Providing this information in the application data sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.

Prior Application Status			Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)

Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button.

Foreign Priority Information:

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Supplemental **Application Data Sheet 37 CFR 1.76**	Attorney Docket Number	BION-051/00US 307799-2244
	Application Number	13/745,830
Title of Invention	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM	

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55(d). When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)[i] the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(h)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Remove

Application Number	Country[i]	Filing Date (YYYY-MM-DD)	Access Code[i] (if applicable)

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button.

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.

Authorization to Permit Access:

☒ Authorization to Permit Access to the Instant Application by the Participating Offices

If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the instant patent application is filed access to the instant patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the instant patent application is filed to have access to the instant patent application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the instant patent application with respect to: 1) the instant patent application-as-filed; 2) any foreign application to which the instant patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the instant patent application; and 3) any U.S. application-as-filed from which benefit is sought in the instant patent application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date o f filing this Authorization.

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Supplemental **Application Data Sheet 37 CFR 1.76**	Attorney Docket Number	BION-051/00US 307799-2244
	Application Number	13/745,830
Title of Invention	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM	

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Applicant 1

If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

Clear

◉ Assignee	○ Legal Representative under 35 U.S.C. 117	○ Joint Inventor
○ Person to whom the inventor is obligated to assign.	○ Person who shows sufficient proprietary interest	

If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor :

If the Applicant is an Organization check here. ☒

Organization Name	Bioness Inc.		
Mailing Address Information For Applicant:			
Address 1	25103 Rye Canyon Loop		
Address 2			
City	Valencia	**State/Province**	CA
Country	US	Postal Code	91355
Phone Number		Fax Number	
Email Address			

Additional Applicant Data may be generated within this form by selecting the Add button.

Non-Applicant Assignee Information:

Providing assignment information in this section does not subsitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

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Supplemental **Application Data Sheet 37 CFR 1.76**	Attorney Docket Number	BION-051/00US 307799-2244
	Application Number	13/745,830
Title of Invention	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM	

Assignee 1

Complete this section only if non-applicant assignee information is desired to be included on the patent application publication in accordance with 37 CFR 1.215(b). Do not include in this section an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest), as the patent application publication will include the name of the applicant(s).

If the Assignee is an Organization check here. ☐

Prefix	**Given Name**	Middle Name	**Family Name**	Suffix

Mailing Address Information For Non-Applicant Assignee:

Address 1	
Address 2	

City		**State/Province**	
Country i		Postal Code	
Phone Number		Fax Number	
Email Address			

Additional Assignee Data may be generated within this form by selecting the Add button.

Signature:

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

Signature	/MF/ Reg. No. 42587			Date (YYYY-MM-DD)	2015-03-27
First Name	Margaret	Last Name	Fischofer	Registration Number	61689

Additional Signature may be generated within this form by selecting the Add button.

This collection of information is required by 37 CFR 1.76. 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 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet 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.**

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 the Freedom of Information Act requires disclosure of these records.

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 Co o p eration 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 inspections 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.

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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 is directed to:

☐ The attached application, or

☒ United States application or PCT international application number 13/745,830

filed on 01/20/2013.

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.

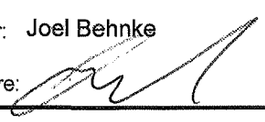
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

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 INVENTOR

Inventor: Joel Behnke

Signature: 

Date (Optional): 11/18/2013

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

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. 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 1 minute 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.**

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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 is directed to:

☐ The attached application, or

☒ United States application or PCT international application number 13/745,830

filed on 01/20/2013.

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 INVENTOR

Inventor: Todd Cushman Date (Optional) : 1-6-14

Signature:

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

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. 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 1 minute 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.**

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Title of Invention	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM

As the below named inventor, I hereby declare that:

This declaration is directed to:

☐ The attached application, or

☒ United States application or PCT international application number 13/745,830

filed on 01/20/2013.

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

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LEGAL NAME OF INVENTOR

Inventor: Erol Erturk Date (Optional): 2/5/2014

Signature: Erol Erturk

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

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. 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 1 minute 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.**

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This declaration is directed to:

☐ The attached application, or

☒ United States application or PCT international application number 13/745,830

filed on 01/20/2013.

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LEGAL NAME OF INVENTOR

Inventor: Arkady Glukhovsky

Date (Optional): 1/10/2014

Signature:

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

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. 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 1 minute 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.**

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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 is directed to:

☐ The attached application, or

☒ United States application or PCT international application number 13/745,830

filed on 01/20/2013.

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 INVENTOR

Inventor: Kelvin J. Hasseler Date (Optional):

Signature: Kelvin Hasseler 02/05/2014

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

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LEGAL NAME OF INVENTOR

Inventor: Keith McBride

Signature: Keith M Bride

Date (Optional): 1/15/2014

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

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LEGAL NAME OF INVENTOR

Inventor: Moshe Olim Date (Optional): Feb 5, 2014

Signature: M. Olim

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

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LEGAL NAME OF INVENTOR

Inventor: Perry Payne Date (Optional): 09 JUNE 2014

Signature: P. Payne

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LEGAL NAME OF INVENTOR

Inventor: Kenneth A. Regas

Signature: Kenneth A. Regas

Date (Optional): February 5, 2014

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

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LEGAL NAME OF INVENTOR

Inventor: William H. Schwiebert

Signature: William H. Schwiebert

Date (Optional): 2-5-2014

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LEGAL NAME OF INVENTOR

Inventor: Daniel Scott Weinstein Date (Optional): 2/5/2014

Signature:

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/745,830	01/20/2013	Arkady Glukhovsky	BION-051/00US 307799-2244

CONFIRMATION NO. 6272

58249
COOLEY LLP
ATTN: Patent Group
1299 Pennsylvania Avenue, NW
Suite 700
Washington, DC 20004

POA ACCEPTANCE LETTER

OC000000074364958

Date Mailed: 04/03/2015

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 03/27/2015.

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.

/hsarwari/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

Electronic Acknowledgement Receipt

EFS ID:	22331923
Application Number:	13745830
International Application Number:	
Confirmation Number:	6272
Title of Invention:	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM
First Named Inventor/Applicant Name:	Arkady Glukhovsky
Customer Number:	58249
Filer:	Margaret Fischofer/Rebecca Phelan
Filer Authorized By:	Margaret Fischofer
Attorney Docket Number:	BION-051/00US 307799-2244
Receipt Date:	13-MAY-2015
Filing Date:	20-JAN-2013
Time Stamp:	11:57:42
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Corrected Filing Receipt	BION-051-00US-RequestToCorrectOFR.pdf	233375 1b8f4a98b13bf414f5616fc81c85862f20c038fe	no	4

Warnings:	
Information:	

Total Files Size (in bytes):	233375

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New Applications Under 35 U.S.C. 111
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.

National Stage of an International Application under 35 U.S.C. 371
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.

New International Application Filed with the USPTO as a Receiving Office
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.

Attorney Docket No. BION-051/00US 307799-2244 **PATENT**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:	GLUKHOVSKY, Arkady, et al.	Confirmation No.:	6272
Application No.:	13/745,830	Group Art Unit:	3673
Filed:	January 20, 2013	Examiner:	Eric J. KURILLA

FOR: **METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM**

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

RESPONSE TO RESTRICTION REQUIREMENT

In the Restriction Requirement mailed January 29, 2015, the deadline for responding to which is March 29, 2015, the Examiner requested that the Applicants elect one of the following species:

Species I: Figs. 2-34;

Species II: Figs. 35-36; and

Species III: Fig. 37.

The Applicants hereby elect, without traverse, Species I, shown in FIGS. 2-34.

Claims 1-8 and 17-21 read on the elected species. The Applicants note that the foregoing claims are not limited to the embodiment shown in FIGS. 2-34, and may include other embodiments.

The Applicants do not believe that extensions of time or fees for net addition of claims are required beyond those that may otherwise be provided for in documents accompanying this paper. If, however, additional extensions of time are necessary to prevent abandonment of this application, then such extensions of time are hereby petitioned under 37 C.F.R. § 1.136(a), and

Aretech LLC - Exhibit 1002, Page 00220

any fees required therefore (including fees for net addition of claims) are hereby authorized to be charged to our Deposit Account No. 50-1283.

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.

If the Examiner believes, for any reason, that personal communication will expedite prosecution of this application, the Examiner is invited to telephone the undersigned at the number provided. Prompt and favorable consideration of this application is respectfully requested.

Dated: March 27, 2015

Respectfully submitted,
COOLEY LLP

By: _____ Reg. No. 42887
Margaret S. Fischofer
Reg. No. 61,689

COOLEY LLP
ATTN: Patent Group
1299 Pennsylvania Avenue NW, Suite 700
Washington, DC 20004

Tel: (703) 456-8113
Fax: (202) 842-7899

115227380 v1

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Document code: WFEE

United States Patent and Trademark Office
Sales Receipt for Accounting Date: 04/01/2015

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01 FC : 1830 140.00 CR

Attorney Docket No. BION-051/00US 307799-2244 **PATENT**

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In Re Application of:	GLUKHOVSKY, Arkady, et al.	Confirmation No.:	6272
Serial No.:	13/745,830	Group Art Unit:	3673
Filed:	January 20, 2013	Examiner:	Eric J. KURILLA

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P.O. Box 1450
Alexandria, VA 22313-1450

REQUEST FOR CORRECTION OF FILING RECEIPT

The Filing Receipt for the above-identified patent application contains the following errors:

The city of residence for Inventor Erol Erturk and the city for the Assignee are incorrectly spelled. The correct spellings of the cities are Cardiff and Valencia, respectively, as they were correctly filed with the Supplemental Application Data Sheet filed on March 27, 2015.

For your reference, a copy of the Filing Receipt is enclosed, with the corrections indicated in red. Please issue an Updated Filing Receipt for this patent application.

The Commissioner 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.

Dated: May 13, 2015

Respectfully submitted,
COOLEY LLP

By: Margaret Fischofer
Margaret S. Fischofer
Reg. No. 61,689

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1299 Pennsylvania Avenue NW, Suite 700
Washington, DC 20004

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Aretech LLC - Exhibit 1002, Page 00223

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/745,830	01/20/2013	Arkady Glukhovsky	BION-051/00US 307799-2244

CONFIRMATION NO. 6272

IMPROPER CFR REQUEST



58249
COOLEY LLP
ATTN: Patent Group
1299 Pennsylvania Avenue, NW
Suite 700
Washington, DC 20004

Date Mailed: 04/03/2015

RESPONSE TO REQUEST FOR CORRECTED FILING RECEIPT

Power of Attorney, Claims, Fees, System Limitations, and Miscellaneous

In response to your request for a corrected Filing Receipt, the Office is unable to comply with your request because:

- The ADS submitted on 03/27/2015 was not properly marked up to show the desired changes. For information being changed relative to the informatio already n of record, additions must be shown with underlining, and deletions must be shown with strike-through or brackets. See 37 CFR 1.76(c)(2)

/hsarwari/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

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13/745,830	01/20/2013	3673	1820	BION-051/00US 307799-2244	21	3

CONFIRMATION NO. 6272

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Joel Behnke, Valencia, CA;
Todd Cushman, Coto de Caza, CA;
Erol Erturk, Cradiff, CA;
Kelvin J. Hasseler, Murrieta, CA;
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Daniel Scott Weinstein, San Diego, CA;

Applicant(s)

Bioness Inc., Valencia, CA

Assignment For Published Patent Application

Bioness Inc., Vaencia, CA

Power of Attorney: The patent practitioners associated with Customer Number 58249

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The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 13/745,830**

Projected Publication Date: Not Applicable

Non-Publication Request: No

Early Publication Request: No

Title

METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM

Preliminary Class

005

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The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign AssetsControl, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

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CONFIRMATION NO. 6272

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OC000000074365597

Date Mailed: 04/03/2015

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Assignment For Published Patent Application

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Power of Attorney: The patent practitioners associated with Customer Number 58249

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Projected Publication Date: Not Applicable

Non-Publication Request: No

Early Publication Request: No

Title

METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM

Preliminary Class

005

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13/745,830	01/20/2013	3673	1820	BION-051/00US 307799-2244	21	3

CONFIRMATION NO. 6272

CORRECTED FILING RECEIPT

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OC000000075219713

Date Mailed: 05/18/2015

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Assignment For Published Patent Application

Bioness Inc., Valencia, CA

Power of Attorney: The patent practitioners associated with Customer Number 58249

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Projected Publication Date: Not Applicable

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METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM

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58249 7590 06/15/2015

COOLEY LLP
ATTN: Patent Group
1299 Pennsylvania Avenue, NW
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Washington, DC 20004

EXAMINER	
KURILLA, ERIC J	

ART UNIT	PAPER NUMBER
3673	

NOTIFICATION DATE	DELIVERY MODE
06/15/2015	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):

zpatdcdocketing@cooley.com

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Office Action Summary	Application No. 13/745,830	Applicant(s) GLUKHOVSKY ET AL.	
	Examiner ERIC KURILLA	Art Unit 3673	AIA (First Inventor to File) Status No

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *03/27/2015*.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ 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.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5)☒ Claim(s) *1-21* is/are pending in the application.

5a) Of the above claim(s) *9-16* is/are withdrawn from consideration.

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-8 and 17-21* is/are rejected.

8)☐ Claim(s) _____ is/are objected to.

9)☐ Claim(s) _____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, 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.

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☒ The drawing(s) filed on _____ is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ 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)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☒ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .

4) ☐ Other: _____.

DETAILED ACTION

Notice of Pre-AIA or AIA Status

1. The present application is being examined under the pre-AIA first to invent provisions.

Election/Restrictions

2. Applicant's election without traverse of Species I (Figs. 2-34), Claims 1-8 and 17-21 in the reply filed on 03/27/2015 is acknowledged. The restriction is deemed proper, and is therefore made FINAL.

Claim Objections

3. Claim 5 is objected to because of the following informalities: "the drive assembly" lacks proper antecedent bases. Examiner is assuming that claim 5 is to depend from claim 4. Appropriate correction is required.

Claim Rejections - 35 USC § 112

4. The following is a quotation of the first paragraph of 35 U.S.C. 112(a):

> (a) IN GENERAL.—The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same, and shall set forth the best mode contemplated by the inventor or joint inventor of carrying out the invention.

The following is a quotation of the first paragraph of pre-AIA 35 U.S.C. 112:

> The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same, and shall set forth the best mode contemplated by the inventor of carrying out his invention.

5. Claim 7 is rejected under 35 U.S.C. 112(a) or 35 U.S.C. 112 (pre-AIA), first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor or a joint inventor, or for pre-AIA the inventor(s), at the time the application was filed, had possession of the claimed invention. Claim 7 recites the limitation the trolley is configured to be powered **only** from the powered conductor. Applicant's specification shows that the trolley is also powered from power source 1610 in para. [1066]. The trolley cannot be **only** powered from the power rail when the trolley is also powered from the power source. Appropriate correction is required.

6. The following is a quotation of 35 U.S.C. 112(b):

> (b) CONCLUSION.—The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the inventor or a joint inventor regards as the invention.

The following is a quotation of 35 U.S.C. 112 (pre-AIA), second paragraph:

> The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

7. Claim 2 is rejected under 35 U.S.C. 112(b) or 35 U.S.C. 112 (pre-AIA), second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which the inventor or a joint inventor, or for pre-AIA the applicant regards as the invention.

8. Claim 2 recites the limitation "passive coupling" and “active coupling”. It is unclear what these limitations are referring to. The drawings and specification describe many couplings for the patient attachment. Examiner is assuming that couplings 2842 and 2812 are the couplings being described in the claim. What constitutes an "active coupling" and what constitutes a "passive coupling"? Both of these couplings can reasonably be considered active since they both allow for pivoting movement (2812 pivots via 2841). Appropriate correction is required.

Claim Rejections - 35 USC § 102

9. The following is a quotation of the appropriate paragraphs of pre-AIA 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

10. Claims 1-8, 17, and 20-21 are rejected under pre-AIA 35 U.S.C. 102(b) as being anticipated by Hidler (US PG-Pub 2008/0287268).

Regarding claim 1, Hidler discloses an apparatus (see Fig. 1), comprising: a trolley (30) configured to be movably suspended from a track (40), a powered conductor (326) operatively coupled to the track (via 36 and 38), the trolley configured to be electrically coupled to the powered conductor; at least one patient attachment (66, 220, 304, 306) coupled to the trolley, the patient support assembly configured to support a single patient; and a control system coupled to at least one of the trolley or the powered conductor.

Regarding claim 2, as best understood, Hidler discloses wherein the patient attachment includes one of a passive coupling (302) and an active coupling (306) configured to be coupled to a patient harness.

Regarding claim 3, Hidler discloses wherein the trolley includes a patient support system, the patient support system configured to actively support a patient (see Fig. 3).

Regarding claim 4, Hidler discloses wherein the trolley includes a drive assembly (50) and a torque transfer assembly (52), the drive assembly and the torque transfer assembly being driven simultaneously.

Regarding claim 5, Hidler discloses the trolley including a plurality of wheels (32 and 34), the wheels disposed above the drive assembly when in an operative configuration.

Regarding claim 6, Hidler discloses the trolley including a plurality of wheels (32 and 34), the wheels disposed above at least a portion of the track (see Fig. 12).

Regarding claim 7, Hidler discloses wherein the trolley is configured to be powered only from the powered conductor (see wires in Fig. 4).

Regarding claim 8, Hidler discloses wherein the trolley is configured to be moved from a first position at an end of the track and a second position spaced apart from the end of the track (see Fig. 3).

Regarding claim 17, Hidler discloses An apparatus, comprising: a housing (3500); a drive element (3334) disposed at least partially within the housing; a wheel

assembly (3400) coupled to the drive element and disposed at least partially within the housing; and a patient support assembly (66, 220, 304, 306) coupled to the housing, the patient support assembly configured to dynamically support a body weight of a patient.

Regarding claim 20, Hidler discloses further comprising at least one of a clutch or a brake associated with the drive element configured to inhibit movement of the drive element (see [0045]).

Regarding claim 21, Hidler discloses further comprising a second drive element coupled to the patient support assembly, the second drive element configured to dynamically support the patient (see [0071], “winch motor”).

Claim Rejections - 35 USC § 103

11. The following is a quotation of pre-AIA 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

12. Claims 18 and 19 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Hidler (US PG-Pub 2008/0287268) in view of Maurer (US Patent No. 7,137,771).

Regarding claim 18, Hidler does not disclose a light source coupled to the housing, the light source configured to project a light path on a surface opposite the

housing. Maurer teaches a light source (16) coupled to a housing (see Fig. 5), the light source configured to project a light path on a surface opposite the housing (see abstract). Hidler and Maurer are analogous art because they are from the same field of endeavor, i.e. trolleys. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the housing of Hidler with the light source of Maurer. The motivation would have been to enhance the operating safety especially under conditions of poor visibility as taught by Maurer.

Regarding claim 19, Maurer teaches that the light source is configured to illuminate a target location on a surface opposite the housing (see Fig. 5).

Conclusion

13. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ERIC KURILLA whose telephone number is (571)270-7294. The examiner can normally be reached on Monday-Thursday 7:30AM-6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Pete Cuomo can be reached on 571-272-6856. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/E. K./
Examiner, Art Unit 3673

/Nicholas Polito/
Primary Examiner, Art Unit 3673

6/1/2015

Notice of References Cited	Application/Control No. 13/745,830	Applicant(s)/Patent Under Reexamination GLUKHOVSKY ET AL.	
	Examiner ERIC KURILLA	Art Unit 3673	Page 1 of 4

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-1,536,766 A	05-1925	CAMMANN HERMANN H	212/345
*	B	US-1,971,294 A	08-1934	BUNKER WILFRED E	5/89.1
*	C	US-2,819,755 A	01-1958	HAROLD BERGER WILLIAM et al.	482/69
*	D	US-3,780,663 A	12-1973	Pettit, Marshall G.	104/307
*	E	US-3,985,082 A	10-1976	Barac, Dragoje R.	104/89
*	F	US-4,360,307 A	11-1982	Larsson, Ralf	414/542
*	G	US-4,372,452 A	02-1983	McCord, Lawless D.	212/285
*	H	US-4,606,082 A	08-1986	Kuhlman, Harvey G.	4/561.1
*	I	US-4,627,119 A	12-1986	Hachey et al.	5/85.1
*	J	US-4,639,955 A	02-1987	Carminati et al.	5/85.1
*	K	US-4,944,056 A	07-1990	Schroeder et al.	5/85.1
*	L	US-5,138,953 A	08-1992	Horcher et al.	105/149.2
*	M	US-5,337,908 A	08-1994	Beck, Jr., John R.	212/312

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
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NON-PATENT DOCUMENTS

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Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Aretech LLC - Exhibit 1002, Page 00245

Notice of References Cited	Application/Control No. 13/745,830	Applicant(s)/Patent Under Reexamination GLUKHOVSKY ET AL.	
	Examiner ERIC KURILLA	Art Unit 3673	Page 2 of 4

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-5,809,591 A	09-1998	Capaldi et al.	5/83.1
*	B	US-5,850,928 A	12-1998	Kahlman et al.	212/285
*	C	US-6,080,087 A	06-2000	Bingham, Anne	482/69
*	D	US-2001/0027149 A1	10-2001	Bingham, Anne	482/69
*	E	US-6,464,208 B1	10-2002	Smith, Donald E.	254/324
*	F	US-6,520,484 B1	02-2003	Shimizu et al.	254/276
*	G	US-2003/0084508 A1	05-2003	Faucher et al.	5/81.10R
*	H	US-2003/0153438 A1	08-2003	Gordon et al.	482/92
*	I	US-2003/0201374 A1	10-2003	Faucher et al.	248/343
*	J	US-2003/0200607 A1	10-2003	Faucher et al.	5/81.10R
*	K	US-6,890,288 B2	05-2005	Bingham, Anne	482/69
*	L	US-2005/0115914 A1	06-2005	Chepurny et al.	212/328
*	M	US-2006/0240952 A1	10-2006	Schlosser, Frank J.	482/069

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Aretech LLC - Exhibit 1002, Page 00246

Notice of References Cited	Application/Control No. 13/745,830	Applicant(s)/Patent Under Reexamination GLUKHOVSKY ET AL.	
	Examiner ERIC KURILLA	Art Unit 3673	Page 3 of 4

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*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2007/0004567 A1	01-2007	Shetty et al.	482/069
*	B	US-7,240,621 B2	07-2007	Chepurny et al.	104/173.1
*	C	US-2008/0287268 A1	11-2008	Hidler, Joseph	482/69
*	D	US-7,462,138 B2	12-2008	Shetty et al.	482/69
*	E	US-7,618,223 B1	11-2009	Begley, Adam	414/139.4
*	F	US-2009/0308828 A1	12-2009	Hansen, Steen	212/320
*	G	US-2010/0000546 A1	01-2010	Park, Hong Jae	128/845
*	H	US-2010/0312152 A1	12-2010	Sarkodie-Gyan et al.	601/34
*	I	US-2011/0000015 A1	01-2011	Faucher et al.	5/83.1
*	J	US-7,993,248 B1	08-2011	Rasmussen, Glenn	482/69
*	K	US-2012/0000876 A1	01-2012	Bergenstrale et al.	212/336
*	L	US-2012/0198612 A1	08-2012	Tindall, Jary Edward	5/83.1
*	M	US-8,397,320 B2	03-2013	Capaldi, Guido	5/85.1

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Aretech LLC - Exhibit 1002, Page 00247

Notice of References Cited	Application/Control No. 13/745,830	Applicant(s)/Patent Under Reexamination GLUKHOVSKY ET AL.	
	Examiner ERIC KURILLA	Art Unit 3673	Page 4 of 4

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-8,584,274 B2	11-2013	Hushek, Stephen G.	5/86.1
*	B	US-2014/0206503 A1	07-2014	Stockmaster et al.	482/4
*	C	US-8,789,682 B2	07-2014	Fisher, Scott	198/465.4
*	D	US-8,978,905 B2	03-2015	Bergenstr{dot over (a)}le et al.	212/324
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

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Aretech LLC - Exhibit 1002, Page 00248

Receipt date: 06/26/2014

13745830 - GAU: 3673

PTO/SB/08a (07-09)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 2

Complete if Known	
Application Number	13/745,830
Filing Date	01/20/2013
First Named Inventor	BEHNKE, Joel
Art Unit	3673
Examiner Name	Eric J. Kurilla
Attorney Docket Number	BION-051/00US 307799-2244

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A1.	4,243,147	01-06-1981	Twitchell et al.	
	A2.	7,137,771	11-21-2006	Maurer et al.	
	A3.	7,883,450	02-08-2011	Hidler	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3] "Number[4] "Kind Code[5] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

Examiner Signature	/Eric Kurilla/	Date Considered	06/05/2015

*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.

This collection of information is required by 37 CFR 1.97 and 1.98. 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 2 hours 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, 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.**

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 2 of 2

Complete if Known	
Application Number	13/745,830
Filing Date	01/20/2013
First Named Inventor	BEHNKE, Joel
Art Unit	3673
Examiner Name	Eric J. Kurilla
Attorney Docket Number	BION-051/00US 307799-2244

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]
	C1.	International Search Report and Written Opinion for International Application No. PCT/US2014/012064, mailed May 9, 2014	

Examiner Signature	/Eric Kurilla/	Date Considered	06/05/2015

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[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.
This collection of information is required by 37 CFR 1.98. 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 2 hours 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, 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.**

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EFS ID:	23464550
Application Number:	13745830
International Application Number:	
Confirmation Number:	6272
Title of Invention:	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM
First Named Inventor/Applicant Name:	Arkady Glukhovsky
Customer Number:	58249
Filer:	Michael D. Winternitz
Filer Authorized By:	
Attorney Docket Number:	BION-051/00US 307799-2244
Receipt Date:	11-SEP-2015
Filing Date:	20-JAN-2013
Time Stamp:	14:28:59
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		BION05100US_Amendment.pdf	334225 1c6c123c632ea006400054b126df3361f7a51044	yes	8

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Amendment/Req. Reconsideration-After Non-Final Reject	1	1
	Claims	2	4
	Applicant Arguments/Remarks Made in an Amendment	5	8
Warnings:			
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New Applications Under 35 U.S.C. 111
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.

National Stage of an International Application under 35 U.S.C. 371
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.

New International Application Filed with the USPTO as a Receiving Office
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.

Attorney Docket No. BION-051/00US 307799-2244 **PATENT**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:	GLUKHOVSKY, Arkady, et al.	Confirmation No.:	6272
Application No.:	13/745,830	Group Art Unit:	3673
Filed:	January 20, 2013	Examiner:	Eric J. KURILLA

FOR: **METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM**

Mail Stop Amendment or
Via EFS
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

REPLY AND AMENDMENT UNDER 37 C.F.R. § 1.111

In response to the Office Action dated June 15, 2015, the response to which is due September 15, 2015, the Applicant submits the following Amendments and Remarks.

The Applicant does not believe that extensions of time or fees for net addition of claims are required beyond those that may otherwise be provided for in documents accompanying this paper. If, however, additional extensions of time are necessary to prevent abandonment of this application, then such extensions of time are hereby petitioned under 37 C.F.R. § 1.136(a), and any fees required therefor (including fees for net addition of claims) are hereby authorized to be charged to our Deposit Account No. 50-1283.

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

Remarks begin on page 5 of this paper.

AMENDMENT

In the Claims:

1. (Currently Amended) An apparatus, comprising:

a trolley configured to be movably suspended from a track,

a powered conductor operatively coupled to the track, the powered conductor being substantially parallel to the track, the powered conductor including at least one conductive surface, a portion of the trolley being in contact with the at least one conductive surface to ~~configured to be~~ electrically coupled ~~to~~ the trolley to the powered conductor, the portion of the trolley configured to move along the at least one conductive surface when the trolley is moved along the track;

at least one patient attachment coupled to the trolley, the at least one patient attachment ~~support assembly~~ configured to support a single patient; and

a control system coupled to ~~at least one of~~ the trolley ~~or~~ and at least operably coupled to the powered conductor.

2. (Currently Amended) The apparatus of claim 1, wherein the patient attachment includes one of a passive coupling and an active coupling, the passive coupling configured to be coupled to a tether to couple the patient attachment to the trolley, the active coupling configured to be coupled to a patient harness.

3. (Original) The apparatus of claim 1, wherein the trolley includes a patient support system, the patient support system configured to actively support a patient.

4. (Original) The apparatus of claim 1, wherein the trolley includes a drive assembly and a torque transfer assembly, the drive assembly and the torque transfer assembly being driven simultaneously.

5. (Currently Amended) The apparatus of claim ~~1~~ 4, the trolley including a plurality of wheels, at least a portion of the plurality of ~~the~~ wheels disposed above the drive assembly when in an operative configuration.

6. (Currently amended) The apparatus of claim 1, the trolley including a plurality of wheels, at least a portion of the plurality of wheels disposed above at least a portion of the track.

7. (Original) The apparatus of claim 1, wherein the trolley is configured to be powered only from the powered conductor.

8. (Currently Amended) The apparatus of claim 1, wherein the trolley is configured to be moved from a first position at an end of the track ~~and~~ to a second position spaced apart from the end of the track.

9.-16. (Cancelled)

17. (Currently amended) An apparatus, comprising:

a housing;

a drive element disposed at least partially within the housing;

a wheel assembly coupled to the drive element and disposed at least partially within the housing; and

a patient support assembly coupled to the housing, the patient support assembly configured to dynamically support a body weight of a patient, the patient support assembly including a cam configured to pivot relative to the housing in response to a force associated with the body weight of the patient, the cam exerting a reaction force when the cam pivots relative to the housing.

18. (Original) The apparatus of claim 17, further comprising:

a light source coupled to the housing, the light source configured to project a light path on a surface opposite the housing.

19. (Original) The apparatus of claim 17, further comprising:

a light source configured to illuminate a target location on a surface opposite the housing.

20. (Original) The apparatus of claim 17, further comprising at least one of a clutch or a brake associated with the drive element configured to inhibit movement of the drive element.

21. (Original) The apparatus of claim 17, further comprising a second drive element coupled to the patient support assembly, the second drive element configured to dynamically support the patient.

REMARKS

Entry of the foregoing amendments and reconsideration of this application are respectfully requested in view of the following remarks. Claims 1-8 and 17-21 are currently pending in this application, with claims 1 and 17 being the independent claims. Claims 9-16 were previously canceled without prejudice to or disclaimer of the subject matter contained therein. The Applicant asserts that no new matter is added by this amendment. Based on the above Amendments and the following Remarks, the Applicant respectfully requests that the Examiner reconsider and withdraw all outstanding objections and rejections.

Summary of Objections and Rejections

Claim Objection

Claim 5 is objected to by the Examiner for a lack of antecedent basis for the language "the drive assembly." The Examiner indicated that claim 5 seemingly includes a typographical error in which "The apparatus of claim 1 . . . ," as recited should read "The apparatus of claim 4 . . . ." Accordingly, claim 5 has been amended to depend from claim 4, thereby correcting the lack of antecedent basis regarding the language "the drive assembly." As such, the Application respectfully requests the objection to claim 5 be withdrawn.

Rejection under Pre-AIA 35 U.S.C. § 112 first paragraph

Claim 7 stands rejected under Pre-AIA 35 U.S.C. § 112 first paragraph as purportedly failing to comply with the written description requirement. Specifically, the Examiner indicated that claim 7 recites the limitation "wherein the trolley is configured to be powered only from the powered conductor." The Examiner noted that in paragraph [1066] of the specification, the trolley is also powered from power source 1610.

The Applicant respectfully asserts that paragraph [1066] of the specification describes Figure 1, which the Examiner previously restricted. Thus, the reference to the restricted subject matter is improper (see, e.g., MPEP 2163(II)(A)(3)(a)(i)). Even if the reference to the restricted subject matter is proper, the Applicant notes that the identified "power source 1610" electrically powers the "powered conductor." Specifically, paragraph [1066] of the specification states,

"[T]he power rail 1620 can transmit a flow of electrical current from the power source 1610 to the electronic system 1700 of the trolley 1100." In other words, the trolley only receives power from the power rail (i.e., "powered conductor"). Accordingly, the Applicant respectfully requests that this rejection be withdrawn.

Rejection under Pre-AIA 35 U.S.C. § 112 second paragraph

Claim 2 stands rejected under Pre-AIA 35 U.S.C. § 112 second paragraph as purportedly being indefinite because of insufficient antecedent basis for limitations in the claim. While the Applicant does not necessarily agree with the Examiner, in an effort to advance prosecution, claim 2 has been amended to particularly point out and distinctly claim the subject matter, which the Applicant regards as the invention[1]. Specifically, claim 2 has been amended to clarify the "passive coupling" and the "active coupling." Accordingly, the Applicant respectfully requests that this rejection be withdrawn.

Rejection under Pre-AIA 35 U.S.C. § 102(b)

Claims 1-8, 17, and 20-21 stand rejected under Pre-AIA 35 U.S.C. § 102(b) as purportedly being anticipated by U.S. Patent Publication No. 2008/0287268 to Hidler ("*Hidler*").

Rejection under Pre-AIA 35 U.S.C. § 103(a)

Claims 18 and 19 stand rejected under Pre-AIA 35 U.S.C. § 103(a) as purportedly being unpatentable over *Hidler* in view of U.S. Patent No. 7,137,771 to Maurer et al. ("*Maurer*").

Independent Claim 1 and its dependent claims are Patentable

Hidler fails to disclose or suggest, "[A] powered conductor being substantially parallel to [a] track . . . [and] including at least one conductive surface, [with] a portion of [a] trolley being in contact with the at least one conductive surface to electrically couple the trolley to the powered conductor, [and in which] the portion of the trolley [is] configured to move along the at least one conductive surface when the trolley is moved along the track," as recited in currently

[1] 35 U.S.C. § 112, 2nd paragraph – "The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention."

amended independent claim 1. At most, *Hidler* discloses, "The cables and/or wires 326 are connected to the electrical system on the trolley 30 and as the trolley 30 moves back and forth along the track 40, the cables and/or wires 326 bunch up into loops 370 . . . ." (*Hidler*, par. [0048]). Nowhere, however, does *Hidler* disclose or suggest a trolley movably in contact with at least one conductive surface of a powered conductor.

Accordingly, the Applicant respectfully submits that currently amended independent claim 1 is patentable over *Hidler*. In addition, the Applicant respectfully asserts that the claims depending from independent claim 1 are patentable for at least the reason that they depend from independent claim 1.

Independent Claim 17 and its dependent claims are Patentable

Hidler fails to disclose or suggest, "[A] patient support assembly coupled to [a] housing . . . [and] configured to dynamically support a body weight of a patient, . . . [in which] a cam [of the patient support assembly is] configured to pivot relative to the housing in response to a force associated with the body weight of the patient, [and in which] the cam exert[s] a reaction force when the cam pivots relative to the housing," as recited in currently amended independent claim 17. At most, *Hidler* discloses, "To apply tension in the rope 220, the ball-screw motor 240 turns the ball-screw 242 . . . to advance the ball-screw plate 246 toward the pulley plate 250. As a result, this movement causes the springs 280 and 282 to compress, causing a force against the pulley plate 250: F=k*dx. . . . [T]he computer monitors the tension in the rope 220 . . . so that the springs 280 and 282 are compressed until the desired magnitude of unloading force is achieved." (*Hidler*, pars. [0081] - [0082]). Nowhere, however, does *Hidler* disclose or suggest pivoting of a cam to exert a reaction force in response to a force associated with the body weight of the patient. Moreover, *Maurer* fails to remedy the deficiencies of *Hidler*.

Accordingly, the Applicant respectfully submits that currently amended independent claim 17 is patentable over *Hidler*. In addition, the Applicant respectfully asserts that the claims depending from independent claim 17 are patentable for at least the reason that they depend from independent claim 17.

Conclusion

All of the stated grounds of objection and rejection have been properly traversed or rendered moot. The Applicant therefore respectfully requests that the Examiner reconsider and withdraw all presently outstanding objections and rejections. The Applicant believes that a full and complete response has been made to the outstanding Office Action and, as such, the present application is in condition for allowance. If the Examiner believes, for any reason, that further personal communication will expedite prosecution of this application, the Examiner is invited to telephone the undersigned at the number provided. Prompt and favorable consideration of this Amendment is respectfully requested.

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.

Dated: August 11, 2015

Respectfully submitted,
COOLEY LLP

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/745,830	01/20/2013	Arkady Glukhovsky	BION-051/00US 307799-2244	6272

58249 7590 12/17/2015

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EXAMINER	
KURILLA, ERIC J	

ART UNIT	PAPER NUMBER
3673	

NOTIFICATION DATE	DELIVERY MODE
12/17/2015	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):

zpatdcdocketing@cooley.com

Aretech LLC - Exhibit 1002, Page 00261

Office Action Summary	Application No. 13/745,830	Applicant(s) GLUKHOVSKY ET AL.	
	Examiner ERIC KURILLA	Art Unit 3673	AIA (First Inventor to File) Status No

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *09/11/2015*.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☒ This action is **FINAL**. 2b)☐ This action is non-final.

3)☐ 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.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5)☒ Claim(s) *1-8 and 17-21* is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-8 and 17-21* is/are rejected.

8)☐ Claim(s) _____ is/are objected to.

9)☐ Claim(s) _____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, 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.

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ 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)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)

2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .

4) ☐ Other: _____.

DETAILED ACTION

In response to remarks filed 09/11/2015

Status of Claims

- ***Claims 1-8 and 17-21 are pending;***
- ***Claims 1, 2, 5, 8, and 17 are currently amended; claims 3, 4, 6, 7, and 18-21 were previously presented;***
- ***Claims 1-8 and 17-21 are rejected herein.***

Response to Arguments

1. Applicant's arguments with respect to claims 1 and 17 have been considered but are moot because the arguments do not apply to any of the references being used in the current rejection.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of pre-AIA 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-3 and 6-8 are rejected under pre-AIA 35 U.S.C. 102(b) as being anticipated by Bergenstrale et al (US PG-Pub 2012/0000876), hereinafter "Bergenstrale." Regarding claim 1, Bergenstrale discloses an apparatus (100), comprising:

a trolley (104 and 106) configured to be movably suspended from a track (102), a powered conductor (114) operatively coupled to the track (see Fig. 6), the powered conductor being substantially parallel to the track (see Fig. 6), the powered conductor including at least one conductive surface (see Fig. 6), a portion of the trolley (106) being in contact with the at least one conductive surface to electrically couple the trolley to the powered conductor (see para. [0023] and para. [0028]), the portion of the trolley configured to move along the at least one conductive surface when the trolley is moved along the track;

at least one patient attachment (110, see para. [0024]) coupled to the trolley, the at least one patient attachment support assembly configured to support a single patient; and

a control system (112) coupled to the trolley and at least operably coupled to the powered conductor.

Regarding claim 2, Bergenstrale discloses wherein the patient attachment includes one of a passive coupling (connection between 104 and 108) and an active coupling (connection between 110 and 108), the passive coupling configured to be coupled to a tether to couple the patient attachment to the trolley, the active coupling configured to be coupled to a patient harness.

Regarding claim 3, Bergenstrale discloses wherein the trolley includes a patient support system, the patient support system configured to actively support a patient (see Fig. 1 and para. [0024]).

Regarding claim 6, Bergenstrale discloses the trolley including a plurality of wheels (144a and 144b), at least a portion of the plurality of wheels disposed above at least a portion of the track (see Fig. 2).

Regarding claim 7, Bergenstrale discloses wherein the trolley is configured to be powered only from the powered conductor (see at least para. [0023]).

Regarding claim 8, Bergenstrale discloses wherein the trolley is configured to be moved from a first position at an end of the track to a second position spaced apart from the end of the track (see all Figs.).

Claim Rejections - 35 USC § 103

4. The following is a quotation of pre-AIA 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. Claims 4, 5, 17, 20, and 21 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Bergenstrale et al. (US PG-Pub 2012/0000876) hereinafter "Bergenstrale" in view of Hidler (US PG-Pub 2008/0287268).

Regarding claim 4, Bergenstrale discloses wherein the trolley includes a drive assembly (see “motor” in para. [0027]). Bergenstrale does not show a torque transfer assembly, the drive assembly and the torque transfer assembly being driven

simultaneously. Hidler teaches a torque transfer assembly (52), a drive assembly (50) and the torque transfer assembly being driven simultaneously. Bergenstrale broadly points to a "motor" powering the trolley system in order to move along the rail. Hidler shows that it is well known in the art to provide a torque transfer assembly with a motor in order to transfer the energy of the motor into linear movement. Hidler and Bergenstrale are considered to be analogous art since they are both from the same field of endeavor, i.e. trolleys. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Bergenstrale with the torque transfer assembly of Hidler.

Regarding claim 5, Bergenstrale discloses the trolley including a plurality of wheels (144a-d), at least a portion of the plurality of wheels disposed above the drive assembly when in an operative configuration (see Fig. 5).

Regarding claim 17, Bergenstrale discloses an apparatus (100), comprising: a drive element (see para. [0027]); a wheel assembly (144a-d) coupled to the drive element (see para. [0027]); and a patient support assembly (108 and 110) coupled to the housing, the patient support assembly configured to dynamically support a body weight of a patient, the patient support assembly including a cam (see connection between 110 and 108) configured to pivot relative to the housing in response to a force associated with the body weight of the patient, the cam exerting a reaction force when the cam pivots. Bergenstrale does not disclose a housing. Hidler discloses a housing (3500) for the purpose of protecting components within the housing. It is old and well known to

place objects inside or partially inside a housing to provide some sort of protection for the objects. Therefore, it would have been obvious to modify Bergenstrale with a housing.

Regarding claim 20, Bergenstrale does not disclose further comprising at least one of a clutch or a brake associated with the drive element configured to inhibit movement of the drive element. Hidler teaches at least one of a clutch or a brake associated with the drive element configured to inhibit movement of the drive element (see [0045]) so that in the event of power loss, the brakes lock and the subject cannot fall. Therefore, it would have been obvious to modify Bergenstrale with the brakes of Hidler.

Regarding claim 21, Bergenstrale discloses further comprising a second drive (133) element coupled to the patient support assembly, the second drive element configured to dynamically support the patient.

6. Claims 18 and 19 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Bergenstrale et al. (US PG-Pub 2012/0000876) hereinafter "Bergenstrale" and Hidler (US PG-Pub 2008/0287268) in view of Maurer (US Patent No. 7,137,771).

Regarding claim 18, Bergenstrale does not disclose a light source coupled to the housing, the light source configured to project a light path on a surface opposite the housing. Maurer teaches a light source (16) coupled to a housing (see Fig. 5), the light source configured to project a light path on a surface opposite the housing (see abstract). Bergenstrale and Maurer are analogous art because they are from the same

field of endeavor, i.e. trolleys. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the housing of Hidler with the light source of Maurer. The motivation would have been to enhance the operating safety especially under conditions of poor visibility as taught by Maurer.

Regarding claim 19, Maurer teaches that the light source is configured to illuminate a target location on a surface opposite the housing (see Fig. 5).

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ERIC KURILLA whose telephone number is (571)270-7294. The examiner can normally be reached on Monday-Thursday 7:30AM-6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Pete Cuomo can be reached on 571-272-6856. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/E. K./
Examiner, Art Unit 3673

/Nicholas Polito/
Primary Examiner, Art Unit 3673

12/11/2015

Electronic Acknowledgement Receipt

EFS ID:	25195467
Application Number:	13745830
International Application Number:	
Confirmation Number:	6272
Title of Invention:	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM
First Named Inventor/Applicant Name:	Arkady Glukhovsky
Customer Number:	58249
Filer:	Michael D. Winternitz/michelle cole
Filer Authorized By:	Michael D. Winternitz
Attorney Docket Number:	BION-051/00US 307799-2244
Receipt Date:	15-MAR-2016
Filing Date:	20-JAN-2013
Time Stamp:	11:29:43
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		BION05100US_Response.pdf	9382655 135905cf0c372c4417fd227d7f7b2db4d2c2d524	yes	10

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Response After Final Action	1	1
	Claims	2	6
	Abstract	7	10

Warnings:					
Information:					
2	After Final Consideration Program Request	BION05100US_ACFPRequest.pdf	203686 d78722fe53fb0201753012bb4fffacff6417c77f	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	9586341		

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.

New Applications Under 35 U.S.C. 111
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.

National Stage of an International Application under 35 U.S.C. 371
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.

New International Application Filed with the USPTO as a Receiving Office
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.

Attorney Docket No. BION-051/00US 307799-2244 **PATENT**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:	GLUKHOVSKY, Arkady, et al.	Confirmation No.:	6272
Application No.:	13/745,830	Group Art Unit:	3673
Filed:	January 20, 2013	Examiner:	Eric J. KURILLA

FOR: **METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM**

Via EFS or
Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

REPLY AND AMENDMENT UNDER 37 C.F.R. § 1.116

In response to the Final Office Action dated December 17, 2015, the response to which is due March 17, 2016, the Applicant submits the following Amendments and Remarks. The Applicant submits this Reply pursuant to the After Final Consideration Pilot 2.0 (AFCP 2.0) program. A Certification and Request for Consideration under the AFCP 2.0 Program (Form PTO/SB/434) is submitted herewith.

The Applicant does not believe that extensions of time or fees for net addition of claims are required beyond those that may otherwise be provided for in documents accompanying this paper. If, however, additional extensions of time are necessary to prevent abandonment of this application, then such extensions of time are hereby petitioned under 37 C.F.R. § 1.136(a), and any fees required therefor (including fees for net addition of claims) are hereby authorized to be charged to our Deposit Account No. 50-1283.

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

Remarks begin on page 7 of this paper.

AMENDMENT

In the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application. Currently amended claims are shown with additions underlined and deletions in ~~strikethrough~~ text. Claims 1-4, 6-8, and 17-29 are currently pending in this application, with claims 1, 17, and 22 being the independent claims. Claim 5 is canceled without prejudice to or disclaimer of the subject matter contained therein (claims 9-16 were canceled in a previous amendment). Claims 22-29 are new. The Applicant asserts that no new matter is added by this amendment.

1. (Currently Amended) An apparatus, comprising:

a trolley having a drive assembly configured to ~~be~~ movably suspend the trolley ~~suspended~~ from a track;

a powered conductor operatively coupled to the track, the powered conductor being substantially parallel to the track, the powered conductor including at least one conductive inner surface, a portion of the trolley being disposed within the powered conductor and in contact with the at least one conductive inner surface to electrically couple the trolley to the powered conductor, the portion of the trolley configured to move within the powered conductor and along the at least one conductive surface when the trolley is moved along the track, the track and the drive assembly each disposed outside of the powered conductor;

at least one patient attachment coupled to the trolley, the at least one patient attachment configured to support a single patient; and

a control system coupled to the trolley and at least operably coupled to the powered conductor.

2. (Previously Presented) The apparatus of claim 1, wherein the patient attachment includes one of a passive coupling and an active coupling, the passive coupling configured to be coupled to a tether to couple the patient attachment to the trolley, the active coupling configured to be coupled to a patient harness.

3. (Original) The apparatus of claim 1, wherein the trolley includes a patient support system, the patient support system configured to actively support a patient.

4. (Currently Amended) The apparatus of claim 1, wherein the trolley includes the ~~a~~ drive assembly and a torque transfer assembly, the drive assembly and the torque transfer assembly being driven simultaneously.

5. (Canceled)

6. (Currently Amended) The apparatus of claim 1, wherein the drive assembly includes ~~trolley including~~ a plurality of wheels, at least a portion of the plurality of wheels disposed above at least a portion of the track.

7. (Original) The apparatus of claim 1, wherein the trolley is configured to be powered only from the powered conductor.

8. (Previously Presented) The apparatus of claim 1, wherein the trolley is configured to be moved from a first position at an end of the track to a second position spaced apart from the end of the track.

9.-16. (Canceled)

17. (Currently amended) An apparatus, comprising:

a housing;

a drive element disposed at least partially within the housing;

a wheel assembly coupled to the drive element and disposed at least partially within the housing; and

a patient support assembly coupled to the housing, the patient support assembly including a tether configured to dynamically support a body weight of a patient, the patient support assembly including a cam configured to pivot relative to the housing and about a vertical axis in

response to a force associated with the body weight of the patient exerted on the tether, the cam exerting a reaction force when the cam pivots relative to the housing, the cam operably coupled to a sensor configured to detect pivoting of the cam.

18. (Original) The apparatus of claim 17, further comprising:

a light source coupled to the housing, the light source configured to project a light path on a surface opposite the housing.

19. (Original) The apparatus of claim 17, further comprising:

a light source configured to illuminate a target location on a surface opposite the housing.

20. (Original) The apparatus of claim 17, further comprising at least one of a clutch or a brake associated with the drive element configured to inhibit movement of the drive element.

21. (Original) The apparatus of claim 17, further comprising a second drive element coupled to the patient support assembly, the second drive element configured to dynamically support the patient.

22. (New) An apparatus, comprising:

a trolley having a drive assembly, the drive assembly including a plurality of wheels configured to move along at least one surface of the track to move the trolley relative to the track;

a powered conductor operatively coupled and substantially parallel to the track, the powered conductor including at least one conductive surface in contact with a portion of the trolley to electrically couple the trolley to the powered conductor, the portion of the trolley configured to move along the at least one conductive surface when the trolley is moved along the track, a portion of the track disposed between at least one wheel from the plurality of wheels and the powered conductor;

at least one patient attachment coupled to the trolley, the at least one patient attachment configured to support a single patient; and

a control system coupled to the trolley and at least operably coupled to the powered conductor.

23. (New) The apparatus of claim 22, wherein the trolley is configured to be powered only from the powered conductor.

24. (New) The apparatus of claim 22, wherein the trolley includes a patient support system, the patient support system configured to actively support a patient.

25. (New) The apparatus of claim 22, wherein the drive assembly includes a first wheel from the plurality of wheels and a second wheel from the plurality of wheels, the first wheel from the plurality of wheels being in contact with a first surface of the track and the second wheel from the plurality of wheels being in contact with a second surface of the track such that the portion of the track is disposed between the first wheel from the plurality of wheels and the second wheel from the plurality of wheels.

26. (New) The apparatus of claim 25, wherein the portion of the track is disposed between the first wheel from the plurality of wheels and the powered conductor.

27. (New) The apparatus of claim 26, wherein the second wheel from the plurality of wheels is disposed between the portion of the track and the powered conductor.

28. (New) The apparatus of claim 22, wherein the conductive surface of the powered conductor defines a first plane, and

the drive assembly includes a first wheel from the plurality of wheels and a second wheel from the plurality of wheels, the first wheel from the plurality of wheels and the second wheel from the plurality of wheels being configured to move along at least one surface of the track to movably suspend the trolley from the track, the at least one surface of the track defining a second plane nonparallel to the first plane.

29. (New) The apparatus of claim 28, wherein the drive assembly includes a third wheel from the plurality of wheels, the third wheel from the plurality of wheels being configured to move along a surface of the portion of the track, the surface of the portion of the track defines a third plane parallel to the first plane.

REMARKS

Entry of the foregoing amendments and reconsideration of this application are respectfully requested in view of the following remarks. Claims 1-4, 6-8, and 17-29 are currently pending in this application, with claims 1, 17, and 22 being the independent claims. Claim 5 is canceled without prejudice to or disclaimer of the subject matter contained therein (claims 9-16 were canceled in a previous amendment). Claims 22-29 are new. The Applicant asserts that no new matter is added by this amendment. Based on the above Amendments and the following Remarks, the Applicant respectfully requests that the Examiner reconsider and withdraw all outstanding rejections.

Request for Consideration under the After Final Consideration Pilot 2.0 Program

The Applicant submits herewith a formal request (Form PTO/SB/434) for further consideration and/or search under the After Final Consideration Pilot 2.0 (AFCP 2.0). To satisfy the requirements of this formal request for consideration under AFCP 2.0, the Applicant has amended independent claims 1and 17 and added independent claim 22 and its dependents. The Applicant respectfully submits that the amendments herein satisfy at least one of the six criteria for consideration under AFCP 2.0 pursuant to the applicable guidelines, namely, "4. The amendment can be determined to place the application in condition for allowance with only a limited amount of further search or consideration, even if new claims are added without cancelling a corresponding number of finally rejected claims."

Summary of Objections and Rejections

Rejection under Pre-AIA 35 U.S.C. § 102(b)

Claims 1-3 and 6-8 are rejected under Pre-AIA 35 U.S.C. § 102(b) as purportedly being anticipated by U.S. Patent Publication No. 2012/0000876 to Bergenstrale ("*Bergenstrale*").

Rejection under Pre-AIA 35 U.S.C. § 103(a)

Claims 4, 5, 17, 20, and 21 are rejected under Pre-AIA 35 U.S.C. § 103(a) as purportedly being unpatentable over *Bergenstrale* in view of U.S. Patent Publication No. 2008/0287268 to Hidler ("*Hidler*").

Claims 18 and 19 are rejected under Pre-AIA 35 U.S.C. § 103(a) as purportedly being unpatentable over *Bergenstrale* and *Hidler* in view of U.S. Patent No. 7,137,771 to Maurer et al. ("*Maurer*").

Independent Claim 1 and its dependent claims are Patentable

Bergenstrale fails to disclose or suggest, "[A] trolley having a drive assembly configured to be movably suspend the trolley from a track [and] a powered conductor . . . including at least one conductive inner surface [with] a portion of the trolley being disposed within the powered conductor and in contact with the at least one conductive inner surface [and with] the track and the drive assembly disposed outside of the powered conductor," as recited in currently amended independent claim 1. At most, *Bergenstrale* discloses, "[A] lift unit 104 is mechanically coupled to a carriage 106 . . . [, which] generally comprises a carriage body 140 to which a plurality of support wheels 144a, 144b, 144c, and 144d are rotatably attached *for supporting the carriage 106 in the rail* . . . [and] further comprises at least one conductive roller 156 . . . [that] electrically couple the battery and/or the motor of the lift unit to *a conductor positioned in the rail to which the lift unit is attached* . . . ." *Bergenstrale*, p. 2, ¶¶ [0026]-[0028] (emphasis added). Nowhere, however, does *Bergenstrale* disclose or suggest a drive assembly of a trolley and a track from which the trolley is suspended being disposed *outside* of a powered conductor. Moreover, *Hidler* fails to remedy the deficiencies of *Bergenstrale*.

Accordingly, the Applicant respectfully submits that currently amended independent claim 1 is patentable over *Bergenstrale*. In addition, the Applicant respectfully asserts that the claims depending from independent claim 1 are patentable for at least the reason of their dependency.

Independent Claim 17 and its dependent claims are Patentable

Bergenstrale alone or modified by *Hidler* fails to disclose or suggest, "[A] a patient support assembly . . . including a tether configured to dynamically support a body weight of a patient [and including] a cam configured to pivot relative to [a] housing and about a vertical axis in response to a force . . . exerted on the tether, [wherein] the cam . . . [is] operably coupled to a sensor configured to detect pivoting of the cam," as recited in currently amended independent claim 17. At most, *Bergenstrale* discloses, "[A] lift unit 104 may be used to support and/or lift a

patient with a lifting strap 108 which is coupled to a motor 133 contained within the lift unit 104. The motor 133 facilitates paying-out or taking-up the lifting strap 108 from the lift unit 104 thereby raising and lowering a patient attached to the lift strap." *Bergenstrale*, p. 2, ¶ [0023].

Hidler, at most, discloses, "To apply tension in the rope 220, the ball-screw motor 240 turns the ball-screw 242 . . . to advance the ball-screw plate 246 toward the pulley plate 250. As a result, this movement causes the springs 280 and 282 to compress, causing a force against the pulley plate 250 . . . . [T]he computer monitors the tension in the rope 220 . . . so that the springs 280 and 282 are compressed until the desired magnitude of unloading force is achieved." *Hidler*, p. 6, ¶¶ [0081] - [0082].

Thus, *Bergenstrale* alone or in combination with *Hidler* fails to disclose or suggest a cam pivoting relative to a housing and about a vertical axis in response to a force exerted on a tether. Moreover, *Maurer* fails to remedy the deficiencies of *Bergenstrale* and/or *Hidler*. Accordingly, the Applicant respectfully submits that currently amended independent claim 17 is patentable over *Bergenstrale* alone and/or in view of *Hidler*. In addition, the Applicant respectfully asserts that the claims depending from independent claim 17 are patentable for at least the reason of their dependency.

Independent Claim 22 and its dependent claims are Patentable

Bergenstrale and/or *Hidler*, alone or in combination, fail to disclose or suggest, "[A] trolley . . . including a plurality of wheels configured to move along at least one surface of [a] track [and] . . . a powered conductor . . . [configured] to electrically couple the trolley to the powered conductor, [wherein] . . . a portion of the track [is] disposed between at least one wheel from the plurality of wheels and the powered conductor," as recited in independent claim 22. Accordingly, the Applicant respectfully requests independent claim 22 and its dependent claims be considered on the merits and submits that time for such consideration falls within the time allotted under the AFCP 2.0 program.

Conclusion

All of the stated grounds of rejection have been properly traversed or rendered moot. The Applicant therefore respectfully requests that the Examiner reconsider and withdraw all presently outstanding rejections. The Applicant believes that a full and complete response has been made to the outstanding Office Action and, as such, the present application is in condition for allowance. If the Examiner believes, for any reason, that further personal communication will expedite prosecution of this application, the Examiner is invited to telephone the undersigned at the number provided. Prompt and favorable consideration of this Amendment is respectfully requested.

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.

Dated: March 15, 2016

Respectfully submitted,
COOLEY LLP

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PTO/SB/434 (05-13)

CERTIFICATION AND REQUEST FOR CONSIDERATION UNDER THE AFTER FINAL CONSIDERATION PILOT PROGRAM 2.0

Practitioner Docket No.:	Application No.:	Filing Date:
BION-051/00US 307799-2244	13/745,830	January 20, 2013

First Named Inventor:	Title:
Glukhovsky, Arkady	Methods and Apparatus for Body Weight Support System

APPLICANT HEREBY CERTIFIES THE FOLLOWING AND REQUESTS CONSIDERATION UNDER THE AFTER FINAL CONSIDERATION PILOT PROGRAM 2.0 (AFCP 2.0) OF THE ACCOMPANYING RESPONSE UNDER 37 CFR 1.116.

1. The above-identified application is (i) an original utility, plant, or design nonprovisional application filed under 35 U.S.C. 111(a) [a continuing application (*e.g.*, a continuation or divisional application) is filed under 35 U.S.C. 111(a) and is eligible under (i)], or (ii) an international application that has entered the national stage in compliance with 35 U.S.C. 371(c).
2. The above-identified application contains an outstanding final rejection.
3. Submitted herewith is a response under 37 CFR 1.116 to the outstanding final rejection. The response includes an amendment to at least one independent claim, and the amendment does not broaden the scope of the independent claim in any aspect.
4. This certification and request for consideration under AFCP 2.0 is the only AFCP 2.0 certification and request filed in response to the outstanding final rejection.
5. Applicant is willing and available to participate in any interview requested by the examiner concerning the present response.
6. This certification and request is being filed electronically using the Office's electronic filing system (EFS-Web).
7. Any fees that would be necessary consistent with current practice concerning responses after final rejection under 37 CFR 1.116, *e.g.*, extension of time fees, are being concurrently filed herewith. [There is no additional fee required to request consideration under AFCP 2.0.]
8. By filing this certification and request, applicant acknowledges the following:
    - Reissue applications and reexamination proceedings are not eligible to participate in AFCP 2.0.
    - The examiner will verify that the AFCP 2.0 submission is compliant, *i.e.*, that the requirements of the program have been met (see items 1 to 7 above). For compliant submissions:
        - The examiner will review the response under 37 CFR 1.116 to determine if additional search and/or consideration (i) is necessitated by the amendment and (ii) could be completed within the time allotted under AFCP 2.0. If additional search and/or consideration is required but cannot be completed within the allotted time, the examiner will process the submission consistent with current practice concerning responses after final rejection under 37 CFR 1.116, *e.g.*, by mailing an advisory action.
        - If the examiner determines that the amendment does not necessitate additional search and/or consideration, or if the examiner determines that additional search and/or consideration is required and could be completed within the allotted time, then the examiner will consider whether the amendment places the application in condition for allowance (after completing the additional search and/or consideration, if required). If the examiner determines that the amendment does not place the application in condition for allowance, then the examiner will contact the applicant and request an interview.
            - The interview will be conducted by the examiner, and if the examiner does not have negotiation authority, a primary examiner and/or supervisory patent examiner will also participate.
            - If the applicant declines the interview, or if the interview cannot be scheduled within ten (10) calendar days from the date that the examiner first contacts the applicant, then the examiner will proceed consistent with current practice concerning responses after final rejection under 37 CFR 1.116.

Signature	Date
/Michael D. Winternitz/	March 15, 2016
Name (Print/Typed) Michael D. Winternitz	Practitioner Registration No. 73,102

***Note**: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. Submit multiple forms if more than one signature is required, see below*.*

[✓] * Total of 1 forms are submitted.

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.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/745,830	01/20/2013	Arkady Glukhovsky	BION-051/00US 307799-2244	6272

58249 7590 04/06/2016

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EXAMINER	
KURILLA, ERIC J	

ART UNIT	PAPER NUMBER
3673	

NOTIFICATION DATE	DELIVERY MODE
04/06/2016	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):

zpatdcdocketing@cooley.com

Aretech LLC - Exhibit 1002, Page 00284

Advisory Action Before the Filing of an Appeal Brief	**Application No.** 13/745,830	**Applicant(s)** GLUKHOVSKY ET AL.	
	Examiner ERIC KURILLA	**Art Unit** 3673	**AIA (First Inventor to File) Status** No

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

THE REPLY FILED 15 March 2016 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.

NO NOTICE OF APPEAL FILED

1. ☒ The reply was filed after a final rejection. No Notice of Appeal has been filed. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114 if this is a utility or plant application. Note that RCEs are not permitted in design applications. The reply must be filed within one of the following time periods:
   a) ☐ The period for reply expires _____months from the mailing date of the final rejection.
   b) ☒ The period for reply expires on: (1) the mailing date of this Advisory Action; or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.
   c) ☐ A prior Advisory Action was mailed more than 3 months after the mailing date of the final rejection in response to a first after-final reply filed within 2 months of the mailing date of the final rejection. The current period for reply expires months from the mailing date of *the prior Advisory Action* or SIX MONTHS from the mailing date of the final rejection, whichever is earlier.
   Examiner Note: If box 1 is checked, check either box (a), (b) or (c). ONLY CHECK BOX (b) WHEN THIS ADVISORY ACTION IS THE FIRST RESPONSE TO APPLICANT'S FIRST AFTER-FINAL REPLY WHICH WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. ONLY CHECK BOX (c) IN THE LIMITED SITUATION SET FORTH UNDER BOX (c). See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) or (c) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

NOTICE OF APPEAL

2. ☐ The Notice of Appeal was filed on _____. A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37 CFR 41.37(a).

AMENDMENTS

3. ☒ The proposed amendments filed after a final rejection, but prior to the date of filing a brief, will not be entered because
   a) ☒ They raise new issues that would require further consideration and/or search (see NOTE below);
   b) ☐ They raise the issue of new matter (see NOTE below);
   c) ☒ They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
   d) ☐ They present additional claims without canceling a corresponding number of finally rejected claims.
   NOTE: *Amendment is too extensive*. (See 37 CFR 1.116 and 41.33(a)).
4. ☐ The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324).
5. ☐ Applicant's reply has overcome the following rejection(s): _____.
6. ☐ Newly proposed or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).
7. ☒ For purposes of appeal, the proposed amendment(s): (a) ☒ will not be entered, or (b) ☐ will be entered, and an explanation of how the new or amended claims would be rejected is provided below or appended.

AFFIDAVIT OR OTHER EVIDENCE

8. ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.
9. ☐ The affidavit or other evidence filed after final action, but before or on the date of filing a Notice of Appeal will not be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e).
10. ☐ The affidavit or other evidence filed after the date of filing the Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a showing of good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).
11. ☐ The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.

REQUEST FOR RECONSIDERATION/OTHER

12. ☒ The request for reconsideration has been considered but does NOT place the application in condition for allowance because: See Continuation Sheet.
13. ☐ Note the attached Information *Disclosure Statement*(s). (PTO/SB/08) Paper No(s). _____
14. ☐ Other: _____.

STATUS OF CLAIMS

15. The status of the claim(s) is (or will be) as follows:
    Claim(s) allowed: .
    Claim(s) objected to: .
    Claim(s) rejected: 1-8 and 17-21.
    Claim(s) withdrawn from consideration: .

/E. K./ Examiner, Art Unit 3673	/Nicholas Polito/ Primary Examiner, Art Unit 3673

Aretech LLC - Exhibit 1002, Page 00285

Continuation of 12. does NOT place the application in condition for allowance because: Applicant's request for entry into AFCP 2.0 is acknowledged, but is denied because the response cannot be reviewed and a search conducted in the limited amount of time authorized for this pilot program. Therefore, the response is being reviewed under pre-pilot practice. Applicant's arguments are directed towards the amendments, therefore they also require further conisderation. Below are some factors that might require more time to search and consider the amendment than is provided for in AFCP 2.0. The below list is not exhaustive. o Claims added o Complexity of the amendment. Applicant's quotation of item number 4 of the "Guidelines for consideration of Responses After Final Rejection under 37 CFR 1.116(b) under AFCP 2.0" is only applicable if the amendment is determined to place the application in condition for allowance. In this instance, a determination on allowablity cannot be made due to the extensive amendments.

Aretech LLC - Exhibit 1002, Page 00286

AFCP 2.0 Decision	Application No.	Applicant(s)
	13/745,830	GLUKHOVSKY ET AL.
	Examiner	Art Unit
	ERIC KURILLA	3673

This is in response to the After Final Consideration Pilot request filed 03/15/2016.

1. **Improper Request** – The AFCP 2.0 request is improper for the following reason(s) and the after final amendment submitted with the request will be treated under pre-pilot procedure.

   ☐ An AFCP 2.0 request form PTO/SB/434 (or equivalent document) was not submitted.

   ☐ A non-broadening amendment to at least one independent claim was not submitted.

   ☐ A proper AFCP 2.0 request was submitted in response to the most recent final rejection.

   ☐ Other:

2. **Proper Request**

   A. After final amendment submitted with the request will not be treated under AFCP 2.0.
   The after final amendment cannot be reviewed and a search conducted within the guidelines of the pilot program.

   ☒ The after final amendment will be treated under pre-pilot procedure.

   B. Updated search and/or completed additional consideration.
   The examiner performed an updated search and/or completed additional consideration of the after final amendment within the time authorized for the pilot program. The result(s) of the updated search and/or completed additional consideration are:

   ☐ 1. All of the rejections in the most recent final Office action are overcome and a Notice of Allowance is issued herewith.

   ☐ 2. The after final amendment would not overcome all of the rejections in the most recent final Office action. See attached interview summary for further details.

   ☐ 3. The after final amendment was reviewed, and it raises a new issue(s). See attached interview summary for further details.

   ☐ 4. The after final amendment raises new issues, but would overcome all of the rejections in the most recent final Office action. A decision on determining allowability could not be made within the guidelines of the pilot. See attached interview summary for further details, including any newly discovered prior art.

   ☐ 5. Other:

   Examiner Note: Please attach an interview summary when necessary as described above.

Aretech LLC - Exhibit 1002, Page 00287

Electronic Acknowledgement Receipt	
EFS ID:	25476119
Application Number:	13745830
International Application Number:	
Confirmation Number:	6272
Title of Invention:	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM
First Named Inventor/Applicant Name:	Arkady Glukhovsky
Customer Number:	58249
Filer:	Michael D. Winternitz
Filer Authorized By:	
Attorney Docket Number:	BION-051/00US 307799-2244
Receipt Date:	13-APR-2016
Filing Date:	20-JAN-2013
Time Stamp:	13:52:07
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$5400
RAM confirmation Number	94
Deposit Account	501283
Authorized User	COOLEY LLP
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Continued Examination (RCE)	BION05100US_RCETransmittalAsFiled.pdf	142338 cc0618e8a9eccc022800323c87f10f4b134441cf	no	3
Warnings:					
This is not a USPTO supplied RCE SB30 form.					
Information:					
2	TrackOne Request	BION05100US_TrackOneTransmittalAsFiled.pdf	137352 3efdd3d7f931b55610fd919a18dbc588589299f8	no	2
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	34409 d90493915f3b5eed1d361ce5601862bddd281456	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	314099		

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.

Electronic Patent Application Fee Transmittal

Application Number:	13745830
Filing Date:	20-Jan-2013
Title of Invention:	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM
First Named Inventor/Applicant Name:	Arkady Glukhovsky
Filer:	Michael D. Winternitz
Attorney Docket Number:	BION-051/00US 307799-2244

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Request for Prioritized Examination	1817	1	4000	4000
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Extension - 1 month with $0 paid	1251	1	200	200
Miscellaneous:				
Request for Continued Examination	1801	1	1200	1200
		Total in USD ($)		**5400**

DO NOT ENTER: /E.J.K/

Attorney Docket No. BION-051/00US 307799-2244 **PATENT**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:	GLUKHOVSKY, Arkady, et al.	Confirmation No.:	6272
Application No.:	13/745,830	Group Art Unit:	3673
Filed:	January 20, 2013	Examiner:	Eric J. KURILLA

FOR: **METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM**

Via EFS or
Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

REPLY AND AMENDMENT UNDER 37 C.F.R. § 1.116

In response to the Final Office Action dated December 17, 2015, the response to which is due March 17, 2016, the Applicant submits the following Amendments and Remarks. The Applicant submits this Reply pursuant to the After Final Consideration Pilot 2.0 (AFCP 2.0) program. A Certification and Request for Consideration under the AFCP 2.0 Program (Form PTO/SB/434) is submitted herewith.

The Applicant does not believe that extensions of time or fees for net addition of claims are required beyond those that may otherwise be provided for in documents accompanying this paper. If, however, additional extensions of time are necessary to prevent abandonment of this application, then such extensions of time are hereby petitioned under 37 C.F.R. § 1.136(a), and any fees required therefor (including fees for net addition of claims) are hereby authorized to be charged to our Deposit Account No. 50-1283.

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

Remarks begin on page 7 of this paper.

PTO/SB/30 (07-14)
Approved for use through 07/31/2016 OMB 0651-0031
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 contains a valid OMB control number.

Request for Continued Examination (RCE) Transmittal

Address to:
Mail Stop RCE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Application Number	13/745,830
Filing Date	01/20/2013
First Named Inventor	Arkady Glukhovsky
Art Unit	3673
Examiner Name	Eric J. KURILLA
Attorney Docket Number	BION-051/00US 307799-2244

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.
Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, to any international application that does not compy with the requirements of 35 U.S.C 371, or to any design application. See Instruction Sheet for RCEs (not to be submitted to the USPTO on page 2.)

1. Submission required under 37 CFR 1.114 Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

   a. [✓] Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

      i. [ ] Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____

      ii. [✓] Other Response to Final Office Action filed on 03/15/16

   b. [ ] Enclosed

      i. [ ] Amendment/Reply

      ii. [ ] Affidavit(s)/ Declaration(s)

      iii. [ ] Information Disclosure Statement (IDS)

      iv. [ ] Other _____

2. Miscellaneous

   a. [ ] Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of _____ months. (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

   b. [ ] Other _____

3. Fees The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.

   a. [✓] The Director is hereby authorized to charge the following fees, any underpayment of fees, or credit any overpayments, to Deposit Account No. 501283.

      i. [✓] RCE fee required under 37 CFR 1.17(e)

      ii. [✓] Extension of time fee (37 CFR 1.136 and 1.17)

      iii. [ ] Other _____

   b. [ ] Check in the amount of $ _____ enclosed

   c. [ ] Payment by credit card (Form PTO-2038 enclosed)

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

Signature	/Michael D. Wintemitz/	Date	2016/04/13
Name (Print/Type)	Michael Wintemitz	Registration No.	73102

CERTIFICATE OF MAILING OR TRANSMISSION

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop RCE, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450 or facsimile transmitted to the U.S. Patent and Trademark Office on the date shown below.

Signature			
Name (Print/Type)		Date	

This collection of information is required by 37 CFR 1.114. 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: Mail Stop RCE, 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.

PTO/SB/30 (07-14)
Approved for use through 07/31/2016. OMB 0651-0031
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 contains a valid OMB control number.

Instruction Sheet for RCEs

(not to be submitted to the USPTO)

NOTES:

An RCE is not a new application, and filing an RCE will not result in an application being accorded a new filing date.

Filing Qualifications:

The application must be a utility or plant application filed on or after June 8, 1995. The application cannot be a provisional application, a utility or plant application filed before June 8, 1995, an international application that does not comply with the requirements of 35 U.S.C. 371, a design application, or a patent under reexamination. See 37 CFR 1.114(e). An international application does not comply with the requirements of 35 U.S.C. 371 until the requirements under 35 U.S.C. 371(c), including the requirement for the inventor's oath or declaration under 35 U.S.C. 371(c)(4), have been complied with.

Filing Requirements:

Prosecution in the application must be closed. Prosecution is closed if the application is under appeal, or the last Office action is a final action, a notice of allowance, or an action that otherwise closes prosecution in the application (e.g., an Office action under *Ex parte Quayle*). See 37 CFR 1.114(b).

A submission and a fee are required at the time the RCE is filed. If reply to an Office action under 35 U.S.C. 132 is outstanding (e.g., the application is under final rejection), the submission must meet the reply requirements of 37 CFR 1.111. If there is no outstanding Office action, the submission can be an information disclosure statement, an amendment, new arguments, or new evidence. See 37 CFR 1.114(c). The submission may be a previously filed amendment (e.g., an amendment after final rejection).

WARNINGS:

Request for Suspension of Action:

All RCE filing requirements must be met before suspension of action is granted. A request for a suspension of action under 37 C FR 1.103(c) does not satisfy the submission requirement and does not permit the filing of the required submission to be suspended.

Improper RCE will NOT toll Any Time Period:

Before Appeal - If the RCE is improper (e.g., prosecution in the application is not closed or the submission or fee has not been filed) and the application is not under appeal, the time period set forth in the last Office action will continue to run and the application will be abandoned after the statutory time period has expired if a reply to the Office action is not timely filed. No additional time will be given to correct the improper RCE.

Under Appeal - If the RCE is improper (e.g., the submission or the fee has not been filed) and the application is under appeal, the improper RCE is effective to withdraw the appeal. Withdrawal of the appeal results in the allowance or abandonment of the application depending on the status of the claims. If there are no allowed claims, the application is abandoned. If there is at least one allowed claim, the application will be passed to issue on the allowed claim(s). See MPEP 1215.01.

See MPEP 706.07(h) for further information on the RCE practice.

Aretech LLC - Exhibit 1002, Page 00294

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.

Doc Code: TRACK1.REQ
Document Description: TrackOne Request

PTO/AIA/424 (04-14)

CERTIFICATION AND REQUEST FOR PRIORITIZED EXAMINATION UNDER 37 CFR 1.102(e) (Page 1 of 1)

First Named Inventor:	Arkady Glukhovsky	Nonprovisional Application Number (if known):	13/745,830
Title of Invention:	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM		

APPLICANT HEREBY CERTIFIES THE FOLLOWING AND REQUESTS PRIORITIZED EXAMINATION FOR THE ABOVE-IDENTIFIED APPLICATION.

1. The processing fee set forth in 37 CFR 1.17(i)(1) and the prioritized examination fee set forth in 37 CFR 1.17(c) have been filed with the request. The publication fee requirement is met because that fee, set forth in 37 CFR 1.18(d), is currently $0. The basic filing fee, search fee, and examination fee are filed with the request or have been already been paid. I understand that any required excess claims fees or application size fee must be paid for the application.

2. I understand that the application may not contain, or be amended to contain, more than four independent claims, more than thirty total claims, or any multiple dependent claims, and that any request for an extension of time will cause an outstanding Track I request to be dismissed.

3. The applicable box is checked below:

I. ☐ **Original Application (Track One) - Prioritized Examination under § 1.102(e)(1)**

i. (a) The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a). This certification and request is being filed with the utility application via EFS-Web.

---OR---

(b) The application is an original nonprovisional plant application filed under 35 U.S.C. 111(a). This certification and request is being filed with the plant application in paper.

ii. An executed inventor's oath or declaration under 37 CFR 1.63 or 37 CFR 1.64 for each inventor, **or** the application data sheet meeting the conditions specified in 37 CFR 1.53(f)(3)(i) is filed with the application.

II. ☑ **Request for Continued Examination - Prioritized Examination under § 1.102(e)(2)**

i. A request for continued examination has been filed with, or prior to, this form.
ii. If the application is a utility application, this certification and request is being filed via EFS-Web.
iii. The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a), or is a national stage entry under 35 U.S.C. 371.
iv. This certification and request is being filed prior to the mailing of a first Office action responsive to the request for continued examination.
v. No prior request for continued examination has been granted prioritized examination status under 37 CFR 1.102(e)(2).

Signature /Michael D. Winternitz/	Date 2016/04/13
Name (Print/Typed) Michael Winternitz	Practitioner Registration Number 73102

Note: *This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. Submit multiple forms if more than one signature is required.**

☑ *Total of 1 forms are submitted.

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:

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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
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/745,830	01/20/2013	Arkady Glukhovsky	BION-051/00US 307799-2244	6272

58249 7590 05/13/2016

COOLEY LLP
ATTN: Patent Group
1299 Pennsylvania Avenue, NW
Suite 700
Washington, DC 20004

EXAMINER	
KURILLA, ERIC J	

ART UNIT	PAPER NUMBER
3673	

NOTIFICATION DATE	DELIVERY MODE
05/13/2016	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):

zpatdcdocketing@cooley.com

Aretech LLC - Exhibit 1002, Page 00298

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

Doc Code: TRACK1.GRANT

Decision Granting Request for Prioritized Examination (Track I or After RCE)	Application No.:13/745,830

1. THE REQUEST FILED 4/13/16 IS **GRANTED.**

The above-identified application has met the requirements for prioritized examination
- A. ☐ for an original nonprovisional application (Track I).
- B. ☒ for an application undergoing continued examination (RCE).

2. **The above-identified application will undergo prioritized examination.** The application will be accorded special status throughout its entire course of prosecution until one of the following occurs:

- A. filing a **petition for extension of time** to extend the time period for filing a reply;
- B. filing an **amendment to amend the application to contain more than four independent claims, more than thirty total claims**, or a multiple dependent claim;
- C. filing a **request for continued examination**;
- D. filing a notice of appeal;
- E. filing a request for suspension of action;
- F. mailing of a notice of allowance;
- G. mailing of a final Office action;
- H. completion of examination as defined in 37 CFR 41.102; or
- I. abandonment of the application.

Telephone inquiries with regard to this decision should be directed to Vanitha Elgart at 571-272-7395.

/Vanitha Elgart/
Vanitha Elgart
[Signature]

Petitions Examiner, Office of Petitions
(Title)

Office of Petitions: Routing Sheet



Application No. 13/745,830

This application is being forwarded to your office for further processing. A decision has been rendered on a petition filed in this application, as indicated below. For details of this decision, please see the document PET.OP.DEC filed on the same date as this document.

- [x] **GRANTED**
- [ ] **DISMISSED**
- [ ] **DENIED**

Office of Petitions: Decision Count Sheet

Mailing Month

Application No. 13745830

13745830

For US serial numbers: enter number only, no slashes or commas. Ex: 10123456
For PCT: enter "51+single digit of year of filing+last 5 numbers", Ex. for PCT/US05/12345, enter 51512345

Deciding Official: ELGART, VANITHA

Count (1) - Palm Credit 13/745,830

Decision: GRANT

FINANCE WORK NEEDED
☐ Select Check Box for YES

GRANT

Decision Type: 643 - Track One request

643

Notes:

Count (2)

Decision: n/a

FINANCE WORK NEEDED
☐ Select Check Box for YES

Decision Type: NONE

Notes:

Count (3)

Decision: n/a

FINANCE WORK NEEDED
☐ Select Check Box for YES

Decision Type: NONE

Notes:

Initials of Approving Official (if required)

If more than 3 decisions, attach 2nd count sheet & mark this box ☐

Printed on:

Office of Petitions Internal Document - Ver. 5.0

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/745,830	01/20/2013	Arkady Glukhovsky	BION-051/00US 307799-2244	6272

58249 7590 06/02/2016

COOLEY LLP
ATTN: Patent Group
1299 Pennsylvania Avenue, NW
Suite 700
Washington, DC 20004

EXAMINER	
KURILLA, ERIC J	

ART UNIT	PAPER NUMBER
3673	

NOTIFICATION DATE	DELIVERY MODE
06/02/2016	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):

zpatdcdocketing@cooley.com

Aretech LLC - Exhibit 1002, Page 00302

Office Action Summary	Application No. 13/745,830	Applicant(s) GLUKHOVSKY ET AL.	
	Examiner ERIC KURILLA	Art Unit 3673	AIA (First Inventor to File) Status No

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *04/13/2016*.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ 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.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5)☒ Claim(s) *1-4,6-8 and 17-29* is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6)☒ Claim(s) *1-4 and 6-8* is/are allowed.

7)☒ Claim(s) *17-29* is/are rejected.

8)☐ Claim(s) _____ is/are objected to.

9)☐ Claim(s) _____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, 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.

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ 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)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)

2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .

4) ☐ Other: _____.

DETAILED ACTION

In response to remarks filed 09/11/2015

Status of Claims

- ***Claims 1-4, 6-8, and 17-29 are pending;***
- ***Claims 1, 4, 6, and 17 are currently amended; claims 2, 3, 7, 8, and 18-21 were previously presented; claims 22-29 are new;***
- ***Claims 17-29 are rejected herein.***

Response to Arguments

1. Applicant's arguments filed 03/15/2016, see page 8, with respect to claim 1 have been considered and are persuasive. Therefore, the rejection(s) of claim 1 have been withdrawn.

Applicant's arguments with respect to claim 17 have been considered and are not persuasive. Applicant argues that *Bergenstrale alone or in combination with Hidler fails to disclose or suggest a cam pivoting relative to a housing and about a vertical axis in response to a force exerted on a tether* — Examiner disagrees. The connection between 108 and 110 acts as a cam. The combination of Bergenstrale and Hidler yields the cam pivoting relative to a housing and about a vertical axis in response to a force exerted on tether 108. If one were to spin 110 clockwise, tether 108 the connection between 108 and 110 would also spin clockwise. This spinning motion would be a result of a force exerted on tether 108.

Claim Rejections - 35 USC § 112

2. The following is a quotation of 35 U.S.C. 112(b):

> (b) CONCLUSION.—The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the inventor or a joint inventor regards as the invention.

The following is a quotation of 35 U.S.C. 112 (pre-AIA), second paragraph:

> The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 22-29 are rejected under 35 U.S.C. 112(b) or 35 U.S.C. 112 (pre-AIA), second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which the inventor or a joint inventor, or for pre-AIA the applicant regards as the invention.

4. Claim 22 recites the limitation "the track" in line 3 of the claim. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of pre-AIA 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 22-24 and 28 are rejected under pre-AIA 35 U.S.C. 102(b) as being anticipated by Bergenstrale et al. (US PG-Pub 2012/0000876), hereinafter referred to as “Bergenstrale”.

Regarding Claim 22, Bergenstrale discloses an apparatus (100), comprising: a trolley (104 and 106) having a drive assembly (see para. [0027]), the drive assembly including a plurality of wheels (144a-144d) configured to move along at least one surface of the track (102) to move the trolley relative to the track;
a powered conductor (114) operatively coupled and substantially parallel to the track (see Fig. 6), the powered conductor including at least one conductive surface in contact with a portion of the trolley (156) to electrically couple the trolley to the powered conductor, the portion of the trolley configured to move along the at least one conductive surface when the trolley is moved along the track, a portion of the track disposed between at least one wheel from the plurality of wheels and the powered conductor (see portion of either 134a or 134b between wheels 144b/144a and conductors 114a/114b in Fig. 8); at least one patient attachment (110, see para. [0024]) coupled to the trolley, the at least one patient attachment configured to support a single patient; and a control system (112) coupled to the trolley and at least operably coupled to the powered conductor.

Regarding Claim 23, Bergenstrale discloses wherein the trolley is configured to be powered only from the powered conductor (see at least para. [0023]).

Regarding Claim 24, Bergenstrale discloses wherein the trolley includes a patient support system (110 and Fig. 5), the patient support system configured to actively support a patient.

Regarding Claim 28, Bergenstrale discloses wherein the conductive surface of the powered conductor defines a first plane (see Fig. 8 @114a or @114b), and the drive

assembly includes a first wheel (144b) from the plurality of wheels and a second wheel (144a) from the plurality of wheels, the first wheel from the plurality of wheels and the second wheel from the plurality of wheels being configured to move along at least one surface of the track (see inside of 134a and 134b) to movably suspend the trolley from the track, the at least one surface of the track defining a second plane nonparallel to the first plane (inside plane of 134a and 134b are perpendicular to plane of 114a and 114b).

Claim Rejections - 35 USC § 103

7. The following is a quotation of pre-AIA 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

8. Claims 17, 20, and 21 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Bergenstrale et al. (US PG-Pub 2012/0000876) hereinafter "Bergenstrale" in view of Hidler (US PG-Pub 2008/0287268).

Regarding claim 17, Bergenstrale discloses an apparatus (100), comprising: a drive element (see para. [0027], specifically “motor”); a wheel assembly (144a-d) coupled to the drive element (see para. [0027]) ; and a patient support assembly (108 and 110),

the patient support assembly including a tether (108) configured to dynamically support a body weight of a patient, the patient support assembly including a cam (see connection between 110 and 108) configured to pivot and about a vertical axis in response to a force associated with the body weight of the patient exerted on the tether (e.g. if one were to spin sling bar 110), the cam exerting a reaction force when the cam pivots (inherent). Bergenstrale does not disclose a housing or the cam operably coupled to a sensor configured to detect pivoting of the cam. Hidler discloses a housing 3500 for the purpose of protecting components within the housing and a pivoting arm 66 operably coupled to a sensor configured to detect pivoting of the arm for the purpose of driving a trolley forward until the rope 220 is vertical (see para. [0058]) so that the trolley is not dragging a patient. Hidler and Bergenstrale are considered to be analogous art since they are both from the same field of endeavor, i.e. trolleys. Therefore, it would have been obvious to modify Bergenstrale with the housing and sensor as taught by Hidler.

Regarding claim 20, Bergenstrale does not disclose further comprising at least one of a clutch or a brake associated with the drive element configured to inhibit movement of the drive element. Hidler teaches at least one of a clutch or a brake associated with a drive element configured to inhibit movement of the drive element (see [0045]) so that in the event of power loss, the brakes lock and the subject cannot fall. Therefore, it would have been obvious to modify Bergenstrale with the brakes of Hidler.

Regarding claim 21, Bergenstrale discloses further comprising a second drive (133) element coupled to the patient support assembly, the second drive element configured to dynamically support the patient.

9. Claims 18 and 19 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Bergenstrale et al. (US PG-Pub 2012/0000876) hereinafter "Bergenstrale" and Hidler (US PG-Pub 2008/0287268) in view of Maurer (US Patent No. 7,137,771).

Regarding claim 18, Bergenstrale does not disclose a light source coupled to the housing, the light source configured to project a light path on a surface opposite the housing. Maurer teaches a light source (16) coupled to a housing (see Fig. 5), the light source configured to project a light path on a surface opposite the housing (see abstract). Bergenstrale and Maurer are analogous art because they are from the same field of endeavor, i.e. trolleys. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the housing of Hidler with the light source of Maurer. The motivation would have been to enhance the operating safety especially under conditions of poor visibility as taught by Maurer.

Regarding claim 19, Maurer teaches that the light source is configured to illuminate a target location on a surface opposite the housing (see Fig. 5).

Allowable Subject Matter

10. Claims 1-4 and 6-8 are allowed.

11. The following is an examiner's statement of reasons for allowance: The prior art of record does not teach nor disclose "a portion of the trolley being disposed within the powered conductor" in combination with the other structure contained in claim 1. Bergenstrale's powered conductor does not contain any portion of the trolley **within** it. Furthermore, the prior art of record does not suggest a powered conductor with a portion of a trolley within it.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

12. Claims 25-27 and 29 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112(b) or 35 U.S.C. 112 (pre-AIA), 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

13. The following is a statement of reasons for the indication of allowable subject matter:

Regarding Claim 25, Bergenstrale does not disclose "the first wheel from the plurality of wheels being in contact with a first surface of the track and the second wheel from the plurality of wheels being in contact with a second surface of the track such that the portion of the track is disposed between the first wheel from the plurality of wheels and the second wheel from the plurality of wheels." The portion of track of Bergenstrale, as required by claim 22, was considered to be the portion of either 134a or 134b

between wheels 144b/144a and conductors 114a/114b in Fig. 8. This portion cannot reasonably be considered to be disposed between the first wheel 144b from the plurality of wheels and the second wheel 144a from the plurality of wheels.

Regarding Claim 29, Bergenstrale does not disclose “the third wheel from the plurality of wheels being configured to move along a surface of the portion of the track, the surface of the portion of the track defines a third plane parallel to the first plane.” If either wheels 144c or 144 d were to taken to be a third wheel, the surface of the portion of either 134a or 134b between wheels 144b/144a and conductors 114a/114b in Fig. 8 cannot reasonably be considered to be parallel to the first plane that is defined by the surface of 114. This third plane would be perpendicular to the first plane.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ERIC KURILLA whose telephone number is (571)270-7294. The examiner can normally be reached on Monday-Thursday 7:30AM-6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner’s supervisor, Pete Cuomo can be reached on 571-272-6856. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/ERIC KURILLA/
Examiner, Art Unit 3673

Electronic Acknowledgement Receipt

EFS ID:	26821446
Application Number:	13745830
International Application Number:	
Confirmation Number:	6272
Title of Invention:	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM
First Named Inventor/Applicant Name:	Arkady Glukhovsky
Customer Number:	58249
Filer:	Michael D. Winternitz/michelle cole
Filer Authorized By:	Michael D. Winternitz
Attorney Docket Number:	BION-051/00US 307799-2244
Receipt Date:	02-SEP-2016
Filing Date:	20-JAN-2013
Time Stamp:	10:34:32
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		BION-051-00US_307799-2244_Response.pdf	916461 3aac56c7e4483ba7f2cc059d2e0d7777eae317ce	yes	9

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Amendment/Req. Reconsideration-After Non-Final Reject	1	1
	Claims	2	6
	Applicant Arguments/Remarks Made in an Amendment	7	9
Warnings:			
Information:			
	Total Files Size (in bytes):	916461	

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.

New Applications Under 35 U.S.C. 111
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.

National Stage of an International Application under 35 U.S.C. 371
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.

New International Application Filed with the USPTO as a Receiving Office
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.

Attorney Docket No. BION-051/00US 307799-2244 **PATENT**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:	GLUKHOVSKY, Arkady, et al.	Confirmation No.:	6272
Application No.:	13/745,830	Group Art Unit:	3673
Filed:	January 20, 2013	Examiner:	Eric J. KURILLA

FOR: **METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM**

Via EFS or
Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

REPLY AND AMENDMENT UNDER 37 C.F.R. § 1.111

In response to the Office Action dated June 2, 2016, the response to which is due September 2, 2016, the Applicant submits the following Amendments and Remarks.

The Applicant does not believe that extensions of time or fees for net addition of claims are required beyond those that may otherwise be provided for in documents accompanying this paper. If, however, additional extensions of time are necessary to prevent abandonment of this application, then such extensions of time are hereby petitioned under 37 C.F.R. § 1.136(a), and any fees required therefor (including fees for net addition of claims) are hereby authorized to be charged to our Deposit Account No. 50-1283.

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

Remarks begin on page 7 of this paper.

AMENDMENT

In the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application. Currently amended claims are shown with additions underlined and deletions in ~~strikethrough~~ text. Claims 1-4, 6-8, and 17-29 are currently pending in this application, with claims 1, 17, and 22 being the independent claims. Claims 5 and 9-16 were previously canceled without prejudice to or disclaimer of the subject matter contained therein. The Applicant asserts that no new matter is added by this amendment.

1. (Previously Presented) An apparatus, comprising:

a trolley having a drive assembly configured to movably suspend the trolley from a track;

a powered conductor operatively coupled to the track, the powered conductor being substantially parallel to the track, the powered conductor including at least one conductive inner surface, a portion of the trolley being disposed within the powered conductor and in contact with the at least one conductive inner surface to electrically couple the trolley to the powered conductor, the portion of the trolley configured to move within the powered conductor and along the at least one conductive surface when the trolley is moved along the track, the track and the drive assembly each disposed outside of the powered conductor;

at least one patient attachment coupled to the trolley, the at least one patient attachment configured to support a single patient; and

a control system coupled to the trolley and at least operably coupled to the powered conductor.

2. (Previously Presented) The apparatus of claim 1, wherein the patient attachment includes one of a passive coupling and an active coupling, the passive coupling configured to be coupled to a tether to couple the patient attachment to the trolley, the active coupling configured to be coupled to a patient harness.

3. (Original) The apparatus of claim 1, wherein the trolley includes a patient support system, the patient support system configured to actively support a patient.

4. (Previously Presented) The apparatus of claim 1, wherein the trolley includes the drive assembly and a torque transfer assembly, the drive assembly and the torque transfer assembly being driven simultaneously.

5. (Canceled)

6. (Previously Presented) The apparatus of claim 1, wherein the drive assembly includes a plurality of wheels, at least a portion of the plurality of wheels disposed above at least a portion of the track.

7. (Original) The apparatus of claim 1, wherein the trolley is configured to be powered only from the powered conductor.

8. (Previously Presented) The apparatus of claim 1, wherein the trolley is configured to be moved from a first position at an end of the track to a second position spaced apart from the end of the track.

9.-16. (Canceled)

17. (Currently amended) An apparatus, comprising:

a housing;

a drive element disposed at least partially within the housing;

a wheel assembly coupled to the drive element and disposed at least partially within the housing; and

a patient support assembly coupled to the housing, the patient support assembly including a pulley movably coupled to a portion of the housing and a cam operably coupled to the pulley, the patient support assembly including a tether engaged with the pulley and configured to dynamically support a body weight of a patient, the ~~patient support assembly including a cam~~ pulley configured to pivot relative to the housing and about a vertical axis in response to a force

associated with the body weight of the patient exerted on the tether, the cam configured to pivot relative to the housing about the vertical axis in response to the pivoting of the pulley, the cam exerting a reaction force when the cam pivots relative to the housing, the cam operably coupled to a sensor configured to detect pivoting of the cam.

18. (Original) The apparatus of claim 17, further comprising:

a light source coupled to the housing, the light source configured to project a light path on a surface opposite the housing.

19. (Original) The apparatus of claim 17, further comprising:

a light source configured to illuminate a target location on a surface opposite the housing.

20. (Original) The apparatus of claim 17, further comprising at least one of a clutch or a brake associated with the drive element configured to inhibit movement of the drive element.

21. (Original) The apparatus of claim 17, further comprising a second drive element coupled to the patient support assembly, the second drive element configured to dynamically support the patient.

22. (Currently Amended) An apparatus, comprising:

a trolley having a drive assembly, the drive assembly including a plurality of wheels configured to move along at least one surface of a ~~the~~ track to move the trolley relative to the track;

a powered conductor operatively coupled and substantially parallel to the track, the powered conductor including at least one conductive surface in contact with a portion of the trolley to electrically couple the trolley to the powered conductor, the portion of the trolley configured to move along the at least one conductive surface when the trolley is moved along the track, a portion of the track disposed between at least one wheel from the plurality of wheels and the powered conductor to isolate the at least one wheel from the powered conductor;

at least one patient attachment coupled to the trolley, the at least one patient attachment configured to support a single patient; and

a control system coupled to the trolley and at least operably coupled to the powered conductor.

23. (Previously Presented) The apparatus of claim 22, wherein the trolley is configured to be powered only from the powered conductor.

24. (Previously Presented) The apparatus of claim 22, wherein the trolley includes a patient support system, the patient support system configured to actively support a patient.

25. (Previously Presented) The apparatus of claim 22, wherein the drive assembly includes a first wheel from the plurality of wheels and a second wheel from the plurality of wheels, the first wheel from the plurality of wheels being in contact with a first surface of the track and the second wheel from the plurality of wheels being in contact with a second surface of the track such that the portion of the track is disposed between the first wheel from the plurality of wheels and the second wheel from the plurality of wheels.

26. (Previously Presented) The apparatus of claim 25, wherein the portion of the track is disposed between the first wheel from the plurality of wheels and the powered conductor.

27. (Previously Presented) The apparatus of claim 26, wherein the second wheel from the plurality of wheels is disposed between the portion of the track and the powered conductor.

28. (Previously Presented) The apparatus of claim 22, wherein the conductive surface of the powered conductor defines a first plane, and

the drive assembly includes a first wheel from the plurality of wheels and a second wheel from the plurality of wheels, the first wheel from the plurality of wheels and the second wheel from the plurality of wheels being configured to move along at least one surface of the track to

movably suspend the trolley from the track, the at least one surface of the track defining a second plane nonparallel to the first plane.

29. (Previously Presented) The apparatus of claim 28, wherein the drive assembly includes a third wheel from the plurality of wheels, the third wheel from the plurality of wheels being configured to move along a surface of the portion of the track, the surface of the portion of the track defines a third plane parallel to the first plane.

REMARKS

Entry of the foregoing amendments and reconsideration of this application are respectfully requested in view of the following remarks. Claims 1-4, 6-8, and 17-29 are currently pending in this application, with claims 1, 17, and 22 being the independent claims. Claims 5 and 9-16 were previously canceled without prejudice to or disclaimer of the subject matter contained therein. The Applicant asserts that no new matter is added by this amendment. Based on the above Amendments and the following Remarks, the Applicant respectfully requests that the Examiner reconsider and withdraw all outstanding rejections.

Interview Summary

The undersigned appreciates the time and attention extended by Examiner Kurilla during the telephonic interview conducted on September 1, 2016. During the interview, proposed amendments to independent claims 17 and 22 to overcome the current rejections were discussed. Specifically, the undersigned proposed amendments to claim 17 to clarify an arrangement of the patient support assembly not disclosed or suggested by the cited art. The undersigned proposed amendments to claim 22 to clarify an arrangement of the drive assembly, track, and powered conductor not disclosed or suggested by the cited art. While no agreement was reached, the Examiner stated the proposed amendments appeared to overcome the rejections but that additional searching/consideration may be required.

Allowed or Allowable Subject Matter

Claims 1-4 and 6-8 are allowed. Claims 25-27 and 29 would be allowable if rewritten in independent form including all the limitations of the base claim and overcoming the rejection under 35 U.S.C. § 112 of the base claim.

Summary Rejections under Pre-AIA 35 U.S.C. § 112, second paragraph

Claim 22 is rejected under Pre-AIA 35 U.S.C. § 112, second paragraph for providing insufficient antecedent basis for the term "the track." As indicated in the above listing of the claims, claim 22 has been amended to correct the deficiency and thus, the Applicant respectfully requests that the Examiner withdraw this rejection.

Summary of Rejections under Pre-AIA 35 U.S.C. §§ 102(b) and 103(a)

Claims 22-24 and 28 are rejected under Pre-AIA 35 U.S.C. § 102(b) as purportedly being anticipated by U.S. Patent Publication No. 2012/0000876 to Bergenstrale ("*Bergenstrale*").

Claims 17, 20, and 21 are rejected under Pre-AIA 35 U.S.C. § 103(a) as purportedly being unpatentable over *Bergenstrale* in view of U.S. Patent Publication No. 2008/0287268 to Hidler ("*Hidler*").

Claims 18 and 19 are rejected under Pre-AIA 35 U.S.C. § 103(a) as purportedly being unpatentable over *Bergenstrale* and *Hidler* in view of U.S. Patent No. 7,137,771 to Maurer et al. ("*Maurer*").

The rejections are overcome or rendered moot for at least the reasons stated herein.

Independent Claim 17 and its dependent claims are Patentable

As discussed during the interview, *Bergenstrale* in view of *Hidler* fails to disclose or suggest "[a] patient support assembly including a pulley movably coupled to a portion of [a] housing[,] a cam coupled to the pulley, . . . [and] a tether[, wherein] . . . the pulley [is] configured to pivot relative to the housing and about a vertical axis in response to a force . . . exerted on the tether, [and] the cam [is] configured to pivot relative to the housing about the vertical axis in response to the pivoting of the pulley," as recited in currently-amended independent claim 17. Moreover, *Maurer* fails to remedy the deficiencies of *Bergenstrale* in view of *Hidler*. Accordingly, the Applicant respectfully submits that currently-amended independent claim 17 and its dependent claims are patentable over *Bergenstrale* in view of *Hidler* and, as such, respectfully requests that the Examiner withdraw the rejections of claims 17-21.

Independent Claim 22 and its dependent claims are Patentable

As discussed during the interview, *Bergenstrale* fails to disclose or suggest a trolley "including a plurality of wheels configured to move along at least one surface of a track [and] . . . a powered conductor including at least one conductive surface in contact with a portion of the trolley to electrically couple the trolley to the powered conductor, [wherein] . . . a portion of the track [is] disposed between at least one wheel from the plurality of wheels and the powered conductor to isolate the at least one wheel from the powered conductor," as recited in currently-

amended independent claim 22. Accordingly, the Applicant respectfully submits that currently-amended independent claim 22 and its dependent claims are patentable over *Bergenstrale* and, as such, respectfully requests that the Examiner withdraw the rejection of claims 22-24 and claim 28.

Conclusion

All of the stated grounds of rejection have been properly traversed or rendered moot. The Applicant therefore respectfully requests that the Examiner reconsider and withdraw all presently outstanding rejections. The Applicant believes that a full and complete response has been made to the outstanding Office Action and, as such, the present application is in condition for allowance. If the Examiner believes, for any reason, that further personal communication will expedite prosecution of this application, the Examiner is invited to telephone the undersigned at the number provided. Prompt and favorable consideration of this Amendment is respectfully requested.

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.

Dated: September 2, 2016

Respectfully submitted,
COOLEY LLP

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

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135780028 v1

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/745,830	01/20/2013	Arkady Glukhovsky	BION-051/00US 307799-2244	6272

58249 7590 09/09/2016

COOLEY LLP
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1299 Pennsylvania Avenue, NW
Suite 700
Washington, DC 20004

EXAMINER	
KURILLA, ERIC J	

ART UNIT	PAPER NUMBER
3673	

NOTIFICATION DATE	DELIVERY MODE
09/09/2016	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):

zpatdcdocketing@cooley.com

Aretech LLC - Exhibit 1002, Page 00324

Notice of Allowability	Application No. 13/745,830	Applicant(s) GLUKHOVSKY ET AL.	
	Examiner ERIC KURILLA	Art Unit 3673	AIA (First Inventor to File) Status No

-- 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 amendment filed 09/02/2016*.
   ☐ 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 *1-4,6-8 and 17-29*. 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 _____
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 _____.

/DAVID E SOSNOWSKI/ Primary Examiner, Art Unit 3673	/E. K./ Examiner, Art Unit 3673

Aretech LLC - Exhibit 1002, Page 00325

REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:

Regarding Claim 1, the prior art of record does not teach nor disclose "a portion of the trolley being disposed within the powered conductor" in combination with the other structure contained in claim 1. Bergenstrale's powered conductor does not contain any portion of the trolley **within** it. Furthermore, the prior art of record does not suggest a powered conductor with a portion of a trolley within it.

Regarding Claim 17, Bergenstrale in view of Hidler fails to disclose or suggest "[a] patient support assembly including a pulley movably coupled to a portion of [a] housing[,] a cam coupled to the pulley, . . . [and] a tether[, wherein] ... the pulley [is] configured to pivot relative to the housing and about a vertical axis in response to a force . . . exerted on the tether, [and] the cam [is] configured to pivot relative to the housing about the vertical axis in response to the pivoting of the pulley," as recited in currently-amended independent claim 17. Moreover, Maurer fails to remedy the deficiencies of Bergenstrale in view of Hidler.

Regarding Claim 22, Bergenstrale fails to disclose or suggest a trolley "including a plurality of wheels configured to move along at least one surface of a track [and] ... a powered conductor including at least one conductive surface in contact with a portion of the trolley to electrically couple the trolley to the powered conductor, [wherein] . . . a portion of the track [is] disposed between at least one wheel from the plurality of wheels and the powered conductor to isolate the at least one wheel from the powered conductor," as recited in currently-amended independent claim 22. Furthermore, the

prior art of record does not suggest at least one wheel isolated from the powered conductor.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ERIC KURILLA whose telephone number is (571)270-7294. The examiner can normally be reached on Monday-Thursday 7:30AM-6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner’s supervisor, Pete Cuomo can be reached on 571-272-6856. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/E. K./
Examiner, Art Unit 3673

/DAVID E SOSNOWSKI/
Primary Examiner, Art Unit 3673

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
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NOTICE OF ALLOWANCE AND FEE(S) DUE

58249 7590 12/13/2016

COOLEY LLP
ATTN: Patent Group
1299 Pennsylvania Avenue, NW
Suite 700
Washington, DC 20004

EXAMINER
KURILLA, ERIC J

ART UNIT	PAPER NUMBER
3673	

DATE MAILED: 12/13/2016

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/745,830	01/20/2013	Arkady Glukhovsky	BION-051/00US 307799-2244	6272

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	$960	$0	$0	$960	03/13/2017

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: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

Aretech LLC - Exhibit 1002, Page 00329

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (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 12/13/2016

COOLEY LLP
ATTN: Patent Group
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 facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/745,830	01/20/2013	Arkady Glukhovsky	BION-051/00US 307799-2244	6272

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	$960	$0	$0	$960	03/13/2017

EXAMINER	ART UNIT	CLASS-SUBCLASS
KURILLA, ERIC J	3673	005-08110R

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 03-02 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 has been filed for recordation as set forth in 37 CFR 3.11. 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. The following fee(s) are submitted:

❑ Issue Fee

❑ Publication Fee (No small entity discount permitted)

❑ Advance Order - # of Copies _____

4b. Payment of Fee(s): (**Please first reapply any previously paid issue fee shown above**)

❑ A check is enclosed.

❑ Payment by credit card. Form PTO-2038 is attached.

❑ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

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

❑ Applicant certifying micro entity status. See 37 CFR 1.29

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.

❑ Applicant asserting small entity status. See 37 CFR 1.27

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.

❑ Applicant changing to regular undiscounted fee 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. _____

PTOL-85 Part B (10-13) Approved for use through 10/31/2013. OMB 0651-0033 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Aretech LLC - Exhibit 1002, Page 00330

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/745,830	01/20/2013	Arkady Glukhovsky	BION-051/00US 307799-2244	6272

58249 7590 12/13/2016

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1299 Pennsylvania Avenue, NW
Suite 700
Washington, DC 20004

EXAMINER	
KURILLA, ERIC J	

ART UNIT	PAPER NUMBER
3673	

DATE MAILED: 12/13/2016

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.

Aretech LLC - Exhibit 1002, Page 00331

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 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, 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.

Applicant-Initiated Interview Summary	**Application No.**	**Applicant(s)**	
	13/745,830	GLUKHOVSKY ET AL.	
	Examiner	**Art Unit**	
	ERIC KURILLA	3673	

All participants (applicant, applicant's representative, PTO personnel):

(1) *ERIC KURILLA*. (3)_____.

(2) *MICHAEL WINTERNITZ*. (4)_____.

Date of Interview: *01 September 2016*.

Type: ☒ Telephonic ☐ Video Conference
☐ Personal [copy given to: ☐ applicant ☐ applicant's representative]

Exhibit shown or demonstration conducted: ☐ Yes ☒ No.
If Yes, brief description: _____.

Issues Discussed ☐101 ☐112 ☒102 ☒103 ☐Others
(For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: *17 and 22*.

Identification of prior art discussed: *Bergenstrale (US PG-Pub 2012/0000876)*.

Substance of Interview
(For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

Applicants' representative and Examiner reached agreement on potential claim language that would overcome the prior art rejections of Claims 17 and 22. .

Applicant recordation instructions: The formal written reply to the last Office action must include the substance of the interview. (See MPEP section 713.04). If a reply to the last Office action has already been filed, applicant is given a non-extendable period of the longer of one month or thirty days from this interview date, or the mailing date of this interview summary form, whichever is later, to file a statement of the substance of the interview

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

☐ Attachment

/ERIC KURILLA/ Examiner, Art Unit 3673	

Aretech LLC - Exhibit 1002, Page 00333

Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record
A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews
Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.
All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:
- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:
1) A brief description of the nature of any exhibit shown or any demonstration conducted,
2) an identification of the claims discussed,
3) an identification of the specific prior art discussed,
4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
5) a brief identification of the general thrust of the principal arguments presented to the examiner,
   (The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
6) a general indication of any other pertinent matters discussed, and
7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.

Electronic Acknowledgement Receipt	
EFS ID:	27875937
Application Number:	13745830
International Application Number:	
Confirmation Number:	6272
Title of Invention:	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM
First Named Inventor/Applicant Name:	Arkady Glukhovsky
Customer Number:	58249
Filer:	Michael D. Winternitz
Filer Authorized By:	
Attorney Docket Number:	BION-051/00US 307799-2244
Receipt Date:	22-DEC-2016
Filing Date:	20-JAN-2013
Time Stamp:	16:06:01
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$1700
RAM confirmation Number	122316INTEFSW00003457501283
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	BION-051-00US_307799-2244_IDS_Transmittal_AsFiled.pdf	87281 ba3da26494d6f0e914743a780d337dda139d8154	no	2
Warnings:					
Information:					
2	Information Disclosure Statement (IDS) Form (SB08)	1BION-051-00US_307799-2244_sb08a_AsFiled.pdf	193737 04a1d7a8a323bdbca6fb6bc1e6c758ebcfdc690a	no	2
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
3	Foreign Reference	EP0088061A2.PDF	475294 a189bcf6cea1f96c52403798d1462487b9afa263	no	14
Warnings:					
Information:					
4	Foreign Reference	CH669780A5_English_Translation.pdf	35780 4eda8676ecfd26795015198dc0c99bf29ea63483	no	3
Warnings:					
Information:					
5	Foreign Reference	JP2000237250A_English_Translation.pdf	1073011 93c5abc5bbe6365eed0389c8ce6bc25f9ad8541e	no	13
Warnings:					
Information:					
6	Non Patent Literature	JP_Office_Action_JP2015-553851_English_Translation.PDF	15770 ec2473977ed51a56962c0481962bbf31d3a3fbee	no	5
Warnings:					

Information:					
7	Non Patent Literature	Exetended_ESR_EP14740676.pdf	225103 e2f92a5ec4fc3566281cb7fb291d8cea058cffb1	no	6
Warnings:					
Information:					
8	Request for Continued Examination (RCE)	BION-051-00US_307799-2244_RCE-Transmittal_AsFiled.pdf	149167 54e20daee86659f3c72242f0ea1534931a18dd9b	no	3
Warnings:					
This is not a USPTO supplied RCE SB30 form.					
Information:					
9	Foreign Reference	CH669780A5.PDF	235206 9f9cea7e6bcf40870cae5d0e848732a29834f658	no	4
Warnings:					
Information:					
10	Foreign Reference	JP2000-237250_A.pdf	617895 b3df65376dcee4cdacde9eae6f919c2573704c38	no	5
Warnings:					
Information:					
11	Fee Worksheet (SB06)	fee-info.pdf	30636 41d061857d7c6e83161efeb794b29666563cb8ed	no	2
Warnings:					
Information:					
			Total Files Size (in bytes):	3138880	

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.

New Applications Under 35 U.S.C. 111
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.

National Stage of an International Application under 35 U.S.C. 371
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.

New International Application Filed with the USPTO as a Receiving Office
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.

Electronic Patent Application Fee Transmittal

Application Number:	13745830
Filing Date:	20-Jan-2013
Title of Invention:	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM
First Named Inventor/Applicant Name:	Arkady Glukhovsky
Filer:	Michael D. Winternitz
Attorney Docket Number:	BION-051/00US 307799-2244

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:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
RCE- 2ND AND SUBSEQUENT REQUEST	1820	1	1700	1700
		Total in USD ($)		**1700**

PTO/SB/30 (07-14)
Approved for use through 07/31/2016 OMB 0651-0031
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 contains a valid OMB control number.

Request for Continued Examination (RCE) Transmittal

Address to:
Mail Stop RCE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Application Number	13/745,830
Filing Date	01/20/2013
First Named Inventor	Arkady Glukhovsky
Art Unit	3673
Examiner Name	Eric J. KURILLA
Attorney Docket Number	BION-051/00US 307799-2244

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.
Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, to any international application that does not compy with the requirements of 35 U.S.C 371, or to any design application. See Instruction Sheet for RCEs (not to be submitted to the USPTO on page 2.)

1. Submission required under 37 CFR 1.114 Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

   a. ☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

      i. ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____

      ii. ☐ Other _____

   b. ☑ Enclosed

      i. ☐ Amendment/Reply

      ii. ☐ Affidavit(s)/ Declaration(s)

      iii. ☑ Information Disclosure Statement (IDS)

      iv. ☐ Other _____

2. Miscellaneous

   a. ☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of _____ months. (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

   b. ☐ Other _____

3. Fees The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.

   a. ☑ The Director is hereby authorized to charge the following fees, any underpayment of fees, or credit any overpayments, to Deposit Account No. 501283.

      i. ☑ RCE fee required under 37 CFR 1.17(e)

      ii. ☐ Extension of time fee (37 CFR 1.136 and 1.17)

      iii. ☐ Other _____

   b. ☐ Check in the amount of $ _____ enclosed

   c. ☐ Payment by credit card (Form PTO-2038 enclosed)

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

Signature	/Michael D. Wintemitz/	Date	2016/12/22
Name (Print/Type)	Michael Wintemitz	Registration No.	73102

CERTIFICATE OF MAILING OR TRANSMISSION

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop RCE, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450 or facsimile transmitted to the U.S. Patent and Trademark Office on the date shown below.

Signature			
Name (Print/Type)		Date	

This collection of information is required by 37 CFR 1.114. 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: Mail Stop RCE, 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.

PTO/SB/30 (07-14)
Approved for use through 07/31/2016. OMB 0651-0031
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 contains a valid OMB control number.

Instruction Sheet for RCEs

(not to be submitted to the USPTO)

NOTES:

An RCE is not a new application, and filing an RCE will not result in an application being accorded a new filing date.

Filing Qualifications:

The application must be a utility or plant application filed on or after June 8, 1995. The application cannot be a provisional application, a utility or plant application filed before June 8, 1995, an international application that does not comply with the requirements of 35 U.S.C. 371, a design application, or a patent under reexamination. See 37 CFR 1.114(e). An international application does not comply with the requirements of 35 U.S.C. 371 until the requirements under 35 U.S.C. 371(c), including the requirement for the inventor's oath or declaration under 35 U.S.C. 371(c)(4), have been complied with.

Filing Requirements:

Prosecution in the application must be closed. Prosecution is closed if the application is under appeal, or the last Office action is a final action, a notice of allowance, or an action that otherwise closes prosecution in the application (e.g., an Office action under *Ex parte Quayle*). See 37 CFR 1.114(b).

A submission and a fee are required at the time the RCE is filed. If reply to an Office action under 35 U.S.C. 132 is outstanding (e.g., the application is under final rejection), the submission must meet the reply requirements of 37 CFR 1.111. If there is no outstanding Office action, the submission can be an information disclosure statement, an amendment, new arguments, or new evidence. See 37 CFR 1.114(c). The submission may be a previously filed amendment (e.g., an amendment after final rejection).

WARNINGS:

Request for Suspension of Action:

All RCE filing requirements must be met before suspension of action is granted. A request for a suspension of action under 37 C FR 1.103(c) does not satisfy the submission requirement and does not permit the filing of the required submission to be suspended.

Improper RCE will NOT toll Any Time Period:

Before Appeal - If the RCE is improper (e.g., prosecution in the application is not closed or the submission or fee has not been filed) and the application is not under appeal, the time period set forth in the last Office action will continue to run and the application will be abandoned after the statutory time period has expired if a reply to the Office action is not timely filed. No additional time will be given to correct the improper RCE.

Under Appeal - If the RCE is improper (e.g., the submission or the fee has not been filed) and the application is under appeal, the improper RCE is effective to withdraw the appeal. Withdrawal of the appeal results in the allowance or abandonment of the application depending on the status of the claims. If there are no allowed claims, the application is abandoned. If there is at least one allowed claim, the application will be passed to issue on the allowed claim(s). See MPEP 1215.01.

See MPEP 706.07(h) for further information on the RCE practice.

Aretech LLC - Exhibit 1002, Page 00342

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.

Attorney Docket No. BION-051/00US 307799-2244 **PATENT**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:	BEHNKE, Joel, et al.	Confirmation No.:	6272
Application No.:	13/745,830	Group Art Unit:	3673
Filed:	January 20, 2013	Examiner:	Eric J. Kurilla

FOR: **METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM**

VIA EFS
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.97(b)

In accordance with the duty of disclosure set forth in 37 C.F.R. §1.56, Applicant(s) hereby submits the following information in conformance with 37 C.F.R. §§1.97 and 1.98.

☒ Pursuant to 37 C.F.R. §1.98, a copy of each non-US patent document cited in the attached Form PTO/SB/08 is enclosed.

☐ No copies of the publications listed on the attached Form PTO/SB/08 are being provided pursuant to 37 C.F.R. §1.98(d) because the publications were previously cited by or submitted to the Office in prior Application Serial No. _____ to which the above-identified application claims priority under 35 U.S.C. §120.

☒ No copies of any U.S. patents or U.S. patent application publications listed on the attached Form PTO/SB/08 are being provided pursuant to 37 C.F.R. §1.98.

☒ Publications 3 and 4 listed on the attached Form PTO/SB/08 were cited in a foreign search or examination report corresponding to European Application Serial No. 14740676.3 and mailed on August 18, 2016; publication 5 listed on the attached Form PTO/SB/08 was cited in a foreign search or examination report corresponding to Japanese Application Serial No. 2015-553851 and mailed on July 4, 2016.

☒ Enclosed is a copy of a non-English publication(s) 4 and 5 Pursuant to §609 of the M.P.E.P., Applicant submits the attached foreign search or examination report, which cites such non-English language publication(s).

☐ Enclosed is a copy of a non-English publication(s) _____ English language publication _____ (copy enclosed) claims priority from this non-English publication.

☐ Enclosed is an explanation of non-English publication(s) _____ for which an English translation is not available.

☒ Enclosed is an English translation of non-English publication(s) 4 and 5 cited in the attached Form PTO/SB/08.

☐ Enclosed is a copy of pending patent Application Serial No. _____.

This Information Disclosure Statement is filed within any one of the following time periods:

☐ within three months from the filing date of this national application other than a CPA under 37 C.F.R. § 1.53(d);

☐ within three months from the date of entry of the national stage as set forth in 37 C.F.R. §1.491 in this international application;

☐ before the mailing date of a first office action on the merits; or

☒ before the mailing of a first office action after the filing of a request for continued examination under 37 C.F.R. § 1.114.

It is respectfully requested that the Examiner consider the above-noted information and return an initialed copy of the attached Form PTO/SB/08 to the undersigned.

Dated: December 22, 2016

Respectfully submitted,
COOLEY LLP

COOLEY LLP
ATTN: Patent Group
1299 Pennsylvania Avenue NW, Suite 700
Washington, DC 20004

Tel: (202) 728-7034
Fax: (202) 842-7899

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

140251454 v1

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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 2

Complete if Known	
Application Number	13/745,830
Filing Date	01/20/2013
First Named Inventor	BEHNKE, Joel
Art Unit	3673
Examiner Name	Eric J. Kurilla
Attorney Docket Number	BION-051/00US 307799-2244

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1.	6,192,803	02-27-2001	Nishino	
	2.	2011/0265260	11-03-2011	Darrow	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3] "Number[4] "Kind Code[5] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
	3.	EP0088061A2	09-07-1983	Hedstrom		
	4.	CH669780A5	04-14-1989	Nussbaumer		X
	5.	JP2000-237250	09-05-2000	Iwauchi		X

Examiner Signature		Date Considered	

*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.

This collection of information is required by 37 CFR 1.97 and 1.98. 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 2 hours 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, 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.

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PTO/SB/08b (07-09)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 2 of 2

Complete if Known	
Application Number	13/745,830
Filing Date	01/20/2013
First Named Inventor	BEHNKE, Joel
Art Unit	3673
Examiner Name	Eric J. Kurilla
Attorney Docket Number	BION-051/00US 307799-2244

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]
	6.	Japanese Office Action for JP Application No. 2015-553851, mailed July 4, 2016, 5 pages.	X
	7.	European Extended Search Report for European Application No. 14740676.3, mailed August 18, 2016, 6 pages.	

Examiner Signature		Date Considered	

*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] Applicant is to place a check mark here if English language Translation is attached.
This collection of information is required by 37 CFR 1.98. 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 2 hours 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, 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.

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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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/745,830	01/20/2013	Arkady Glukhovsky	BION-051/00US 307799-2244	6272

58249 7590 01/17/2017

COOLEY LLP
ATTN: Patent Group
1299 Pennsylvania Avenue, NW
Suite 700
Washington, DC 20004

EXAMINER	
KURILLA, ERIC J	

ART UNIT	PAPER NUMBER
3673	

NOTIFICATION DATE	DELIVERY MODE
01/17/2017	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):

zpatdcdocketing@cooley.com

Aretech LLC - Exhibit 1002, Page 00348

Supplemental Notice of Allowability	**Application No.** 13/745,830	**Applicant(s)** GLUKHOVSKY ET AL.	
	Examiner ERIC KURILLA	**Art Unit** 3673	**AIA (First Inventor to File) Status** No

-- 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 IDS and RCE filed 12/22/2016*.
   ☐ 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 *1-4,6-8 and 17-29*. 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 _____
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 _____.

/ERIC KURILLA/
Examiner, Art Unit 3673

Aretech LLC - Exhibit 1002, Page 00349

PTO/SB/08a (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Apt of 1995 no Persons are required to respond to a collection of information unless it contains a valid OMR control number

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 2

Complete if Known	
Application Number	13/745,830
Filing Date	01/20/2013
First Named Inventor	BEHNKE, Joel
Art Unit	3673
Examiner Name	Eric J. Kurilla
Attorney Docket Number	BION-051/00US 307799-2244

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1.	6,192,803	02-27-2001	Nishino	
	2.	2011/0265260	11-03-2011	Darrow	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3] "Number[4] "Kind Code[5] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
	3.	EP0088061A2	09-07-1983	Hedstrom		
	4.	CH669780A5	04-14-1989	Nussbaumer		X
	5.	JP2000-237250	09-05-2000	Iwauchi		X

Examiner Signature	/ERIC J KURILLA/	Date Considered	01/04/2017

*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.

This collection of information is required by 37 CFR 1.97 and 1.98. 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 2 hours 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, 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.

American LegalNet, Inc. www.FormsWorkFlow.com

140251141 v1 ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.J.K/

PTO/SB/08b (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Apt of 1995 no Persons are required to respond to a collection of information unless it contains a valid OMR control number.

Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 2 of 2

Complete if Known	
Application Number	13/745,830
Filing Date	01/20/2013
First Named Inventor	BEHNKE, Joel
Art Unit	3673
Examiner Name	Eric J. Kurilla
Attorney Docket Number	BION-051/00US 307799-2244

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]
	6.	Japanese Office Action for JP Application No. 2015-553851, mailed July 4, 2016, 5 pages.	X
	7.	European Extended Search Report for European Application No. 14740676.3, mailed August 18, 2016, 6 pages.	

Examiner Signature	/ERIC J KURILLA/	Date Considered	01/04/2017

*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] Applicant is to place a check mark here if English language Translation is attached.
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Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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American LegalNet, Inc.
www.FormsWorkFlow.com

140251141 v1 ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.J.K/

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/745,830	01/20/2013	Arkady Glukhovsky	BION-051/00US 307799-2244	6272

58249 7590 01/23/2017

COOLEY LLP
ATTN: Patent Group
1299 Pennsylvania Avenue, NW
Suite 700
Washington, DC 20004

EXAMINER	
KURILLA, ERIC J	

ART UNIT	PAPER NUMBER
3673	

NOTIFICATION DATE	DELIVERY MODE
01/23/2017	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):

zpatdcdocketing@cooley.com

Aretech LLC - Exhibit 1002, Page 00352

UNITED STATES DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office
Address : COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450

APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR / PATENT IN REEXAMINATION	ATTORNEY DOCKET NO.
13/745,830	20 January, 2013	GLUKHOVSKY ET AL.	BION-051/00US 307799-2244

		EXAMINER	
COOLEY LLP ATTN: Patent Group 1299 Pennsylvania Avenue, NW Suite 700 Washington, DC 20004		ERIC KURILLA	
		ART UNIT	PAPER
		3673	20170117

DATE MAILED: 17 January, 2017

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

Commissioner for Patents

The previous Notice of Allowance mailed 01/17/2017 was mailed erroneoulsy as a "Corrective Notice of Allowance". All fees due are indicated in the PART B- FEE(S) TRANSMITTAL in the Notice of Allowance mailed on 12/13/2016. The due date for these fees must be paid within THREE MONTHS from the mailing date of the Notice of Allowance mailed 01/17/2017 or this application shall be regarded as abandoned. Therefore the due date for all fees is 04/17/2017.

/ERIC KURILLA/
Examiner, Art Unit 3673

PTO-90C (Rev.04-03)

Supplemental Notice of Allowability	**Application No.** 13/745,830	**Applicant(s)** GLUKHOVSKY ET AL.	
	Examiner ERIC KURILLA	**Art Unit** 3673	**AIA (First Inventor to File) Status** No

-- 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.

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   ☐ 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 *1-4,6-8 and 17-29*. 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 _____
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 _____.

/ERIC KURILLA/
Examiner, Art Unit 3673

Aretech LLC - Exhibit 1002, Page 00354

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (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 02/08/2017
COOLEY LLP
ATTN: Patent Group
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 facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/745,830	01/20/2013	Arkady Glukhovsky	BION-051/00US 307799-2244	6272

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	$960	$0	$0	$960	05/08/2017

EXAMINER	ART UNIT	CLASS-SUBCLASS
KURILLA, ERIC J	3673	005-08110R

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 03-02 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 Cooley LLP
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 has been filed for recordation as set forth in 37 CFR 3.11. 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 ☐ Government

4a. The following fee(s) are submitted:
☒ Issue Fee
☐ Publication Fee (No small entity discount permitted)
☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): **(Please first reapply any previously paid issue fee shown above)**
☐ A check is enclosed.
☐ Payment by credit card. Form PTO-2038 is attached.
☒ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number 501283 (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)
☐ Applicant certifying micro entity status. See 37 CFR 1.29 — 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.
☐ Applicant asserting small entity status. See 37 CFR 1.27 — 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.
☐ Applicant changing to regular undiscounted fee 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 2017-02-14
Typed or printed name Michael D. Winternitz Registration No. 73102

PTOL-85 Part B (10-13) Approved for use through 10/31/2013. OMB 0651-0033 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Aretech LLC - Exhibit 1002, Page 00355

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 02/08/2017

COOLEY LLP
ATTN: Patent Group
1299 Pennsylvania Avenue, NW
Suite 700
Washington, DC 20004

EXAMINER
KURILLA, ERIC J

ART UNIT	PAPER NUMBER
3673	

DATE MAILED: 02/08/2017

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/745,830	01/20/2013	Arkady Glukhovsky	BION-051/00US 307799-2244	6272

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	$960	$0	$0	$960	05/08/2017

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: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

Aretech LLC - Exhibit 1002, Page 00356

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax **(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 02/08/2017

COOLEY LLP
ATTN: Patent Group
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 facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/745,830	01/20/2013	Arkady Glukhovsky	BION-051/00US 307799-2244	6272

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	$960	$0	$0	$960	05/08/2017

EXAMINER	ART UNIT	CLASS-SUBCLASS
KURILLA, ERIC J	3673	005-08110R

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 03-02 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 has been filed for recordation as set forth in 37 CFR 3.11. 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. The following fee(s) are submitted:

❑ Issue Fee

❑ Publication Fee (No small entity discount permitted)

❑ Advance Order - # of Copies _____

4b. Payment of Fee(s): (**Please first reapply any previously paid issue fee shown above**)

❑ A check is enclosed.

❑ Payment by credit card. Form PTO-2038 is attached.

❑ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

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

❑ Applicant certifying micro entity status. See 37 CFR 1.29

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.

❑ Applicant asserting small entity status. See 37 CFR 1.27

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.

❑ Applicant changing to regular undiscounted fee 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. _____

PTOL-85 Part B (10-13) Approved for use through 10/31/2013. OMB 0651-0033 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Aretech LLC - Exhibit 1002, Page 00357

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/745,830	01/20/2013	Arkady Glukhovsky	BION-051/00US 307799-2244	6272

58249 7590 02/08/2017

COOLEY LLP
ATTN: Patent Group
1299 Pennsylvania Avenue, NW
Suite 700
Washington, DC 20004

EXAMINER	
KURILLA, ERIC J	

ART UNIT	PAPER NUMBER
3673	

DATE MAILED: 02/08/2017

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.

Aretech LLC - Exhibit 1002, Page 00358

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 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, 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.

Electronic Patent Application Fee Transmittal

Application Number:	13745830
Filing Date:	20-Jan-2013
Title of Invention:	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM
First Named Inventor/Applicant Name:	Arkady Glukhovsky
Filer:	Michael D. Winternitz/michelle cole
Attorney Docket Number:	BION-051/00US 307799-2244

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	960	960

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		**960**

Electronic Acknowledgement Receipt	
EFS ID:	28346773
Application Number:	13745830
International Application Number:	
Confirmation Number:	6272
Title of Invention:	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM
First Named Inventor/Applicant Name:	Arkady Glukhovsky
Customer Number:	58249
Filer:	Michael D. Winternitz
Filer Authorized By:	
Attorney Docket Number:	BION-051/00US 307799-2244
Receipt Date:	14-FEB-2017
Filing Date:	20-JAN-2013
Time Stamp:	11:39:34
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$960
RAM confirmation Number	021417INTEFSW00009511501283
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	BION-051-00US_307799-2244_PartB-IssueFee_AsFiled.pdf	191392 d148f9dccf263dfe0276f9fdd525739af17097f5	no	1
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30898 97bf981e0d07d6985e35bcb391c776bae9ea59cd	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	222290		

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.

New Applications Under 35 U.S.C. 111
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.

National Stage of an International Application under 35 U.S.C. 371
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.

New International Application Filed with the USPTO as a Receiving Office
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.

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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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/745,830	06/20/2017	9682000	BION-051/00US 307799-2244	6272

58249 7590 05/31/2017

COOLEY LLP
ATTN: Patent Group
1299 Pennsylvania Avenue, NW
Suite 700
Washington, DC 20004

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 502 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):

Arkady Glukhovsky, Valencia, CA;
Bioness Inc., Valencia, CA;
Joel Behnke, Valencia, CA;
Todd Cushman, Coto de Caza, CA;
Erol Erturk, Cardiff, CA;
Kelvin J. Hasseler, Murrieta, CA;
Keith McBride, Ventura, CA;
Moshe Olim, San Diego, CA;
Perry Payne, Saugus, CA;
Kenneth A. Regas, Poway, CA;
William H. Schwiebert, Escondido, CA;
Daniel Scott Weinstein, San Diego, CA;

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The USA offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to encourage and facilitate business investment. To learn more about why the USA is the best country in the world to develop technology, manufacture products, and grow your business, visit SelectUSA.gov.

IR103 (Rev. 10/09)

Electronic Acknowledgement Receipt	
EFS ID:	29809452
Application Number:	13745830
International Application Number:	
Confirmation Number:	6272
Title of Invention:	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM
First Named Inventor/Applicant Name:	Arkady Glukhovsky
Customer Number:	58249
Filer:	Michael D. Winternitz
Filer Authorized By:	
Attorney Docket Number:	BION-051/00US 307799-2244
Receipt Date:	18-JUL-2017
Filing Date:	20-JAN-2013
Time Stamp:	10:13:50
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$100
RAM confirmation Number	071817INTEFSW00008692501283
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Certificate of Correction	BION_051_00US_Certificate_Correction.pdf	154288 7be9c7a71c72f27f4157b57d19cfcf256281a1b3	no	2
Warnings:					
Information:					
2	Request for Certificate of Correction	BION_051_00US_Request_Certificate_Correction.pdf	290138 b8e1ab7adc67662c4259793825562da7abe2861d	no	2
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30567 e680fecc8bf4e7b39c955ce92bda63a5d01c025a	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	474993		

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.

New Applications Under 35 U.S.C. 111
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.
National Stage of an International Application under 35 U.S.C. 371
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.
New International Application Filed with the USPTO as a Receiving Office
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.

Electronic Patent Application Fee Transmittal

Application Number:	13745830
Filing Date:	20-Jan-2013
Title of Invention:	METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM
First Named Inventor/Applicant Name:	Arkady Glukhovsky
Filer:	Michael D. Winternitz
Attorney Docket Number:	BION-051/00US 307799-2244

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:				
Certificate of correction	1811	1	100	100

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		**100**

Attorney Docket No. BION-051/00US 307799-2244 **PATENT**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	BEHNKE, Joel, et al.		
Patent No.:	9,682,000 B2	Confirmation No.: 6272	
Issued:	June 20, 2017	Group Art Unit: 3673	
Serial No.:	13/745,830	Examiner:	KURILLA, Eric J.
Filed:	January 20, 2013		
For:	**METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM**		

VIA EFS or
Commissioner for Patents
Office of Data Management
Attention: Certificates of Correction Branch
P.O. Box 1450
Alexandria, VA 22313-1450

REQUEST FOR CERTIFICATE OF CORRECTION OF PATENT

The Applicant respectfully requests a certificate of correction for the above-identified patent due to mistakes by the U.S. Patent and Trademark Office and the Applicant. The errors made by the Office can be found in the patent in the following locations:

Column 35, line 21, for claim 1, the comma after "the track" should be deleted. This portion of claim 1 should read as follows:

"the track and the drive assembly..."

Column 36, line 36, for claim 13, "as" should be replaced with "least". This portion of claim 13 should read as follows:

"at least one patient attachment..."

Column 36, line 46, for claim 16, "front" should be replaced with "from". This portion of claim 16 should read as follows:

"includes a first wheel from the plurality of wheels..."

Aretech LLC - Exhibit 1002, Page 00369

The error made by the Applicant can be found in the patent in the following location:

In the Abstract, line 2, "operative" should be replaced with "operatively".

The corrections are indicated on the attached Form PTO/SB/44 for Certificate of Correction.

The Director is hereby authorized to charge any appropriate fees under 37 C.F.R. §§ 1.16, 1.17, 1.20, and/or 1.21 that may be required by this paper or any accompanying paper, and to credit any overpayment, to Deposit Account No. 50-1283.

Dated: July 18, 2017

Respectfully submitted,
COOLEY LLP

By: /Michael D. Winternitz/

Michael D. Winternitz
Reg. No. 73,102

Cooley LLP
ATTN: Patent Group
1299 Pennsylvania Avenue, NW
Suite 700
Washington, DC 20004

Tel: (202) 728-7034
Fax: (202) 842-7899

147931844 v1

PTO/SB/44 (09-07)
Approved for use through 01/31/2020. OMB 0651-0033
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.
(Also Form PTO-1050)

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 9,682,000

APPLICATION NO.: 13/745,830

ISSUE DATE : June 20, 2017

INVENTOR(S) : Joel Behnke,Todd Cushman,Erol Erturk,Arkady Glukhovsky,Kelvin J. Hasseler,Keith McBride, Moshe Olim,Perry Payne,Kenneth A. Regas,William H. Schwiebert,Daniel Scott Weinstein

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 35, line 21, for claim 1, the comma after "the track" should be deleted. This portion of claim 1 should read as follows:

"the track and the drive assembly..."

Column 36, line 36, for claim 13, "as" should be replaced with "least". This portion of claim 13 should read as follows:

"at least one patient attachment..."

Column 36, line 46, for claim 16, "front" should be replaced with "from". This portion of claim 16 should read as follows:

"includes a first wheel from the plurality of wheels..."

In the Abstract, line 2, "operative" should be replaced with "operatively".

MAILING ADDRESS OF SENDER (Please do not use Customer Number below):

Cooley LLP
ATTN: Patent Group
1299 Pennsylvania Avenue, NW, Suite 700, Washington, DC 20004

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. 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 1.0 hour 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: Attention Certificate of Corrections Branch, 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.

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.

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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).
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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

CERTIFICATE OF CORRECTION

PATENT NO. : 9,682,000 B2
APPLICATION NO. : 13/745830
DATED : June 20, 2017
INVENTOR(S) : Joel Behnke et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the Title Page

In the Abstract, Line 2, "operative" should be replaced with "operatively".

In the Claims

Column 35, Line 21, for Claim 1, the "," after "the track" should be deleted.

Column 36, Line 36, for Claim 13, "as" should be replaced with "least".

Column 36, Line 46, for Claim 16, "front" should be replaced with "from".

Signed and Sealed this
Twenty-second Day of August, 2017



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

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT6693124

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	RELEASE OF SECURITY INTEREST

CONVEYING PARTY DATA

Name	Execution Date
MANN GROUP, LLC	03/30/2021

RECEIVING PARTY DATA

Name:	BIONESS INC.
Street Address:	25103 RYE CANON LOOP
City:	VALENCIA
State/Country:	CALIFORNIA
Postal Code:	91355

PROPERTY NUMBERS Total: 29

Property Type	Number
PCT Number:	US2014012064
PCT Number:	US2017050482
PCT Number:	US2016061552
PCT Number:	US2017012977
Application Number:	62458648
Patent Number:	8483820
Patent Number:	8467880
Patent Number:	8738137
Patent Number:	9757554
Patent Number:	9072896
Application Number:	15700889
Patent Number:	8332029
Patent Number:	8538517
Patent Number:	8862225
Application Number:	13000840
Patent Number:	7502652
Patent Number:	8406886
Patent Number:	9072886
Patent Number:	7337007
Patent Number:	8167640

Property Type	Number
Patent Number:	9682000
Application Number:	14226021
Application Number:	14613140
Application Number:	15471585
Application Number:	15698184
Application Number:	14223340
Application Number:	15013277
Application Number:	15349390
Patent Number:	8494650

CORRESPONDENCE DATA

Fax Number: (919)821-6800

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: (919) 838-2034

Email: pkarmire@smithlaw.com

Correspondent Name: PERKY L. KARMIRE / SMITH ANDERSON LAW

Address Line 1: 150 FAYETTEVILLE STREET

Address Line 2: SUITE 2300

Address Line 4: RAELIGH, NORTH CAROLINA 27601

ATTORNEY DOCKET NUMBER:	012695.15
NAME OF SUBMITTER:	PERKY L. KARMIRE
SIGNATURE:	/s/ Perky L. Karmire
DATE SIGNED:	05/05/2021
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 5

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source=Bioness#page5.tif

TERMINATION AND RELEASE OF PATENT SECURITY AGREEMENT

THIS TERMINATION AND RELEASE OF PATENT SECURITY AGREEMENT (this "Termination"), is dated as of March 30, 2021, and made by and made by **Mann Group, LLC**, in its capacity as collateral agent (the "Grantee"), in favor of **Bioness Inc.** ("Grantor"), a Delaware Corporation.

WHEREAS, Grantor and Collateral Agent entered into the Patent Security Agreement dated as of August 15, 2017 (the "Patent Security Agreement"), pursuant to which Grantor granted Collateral Agent a security interest in all of Grantor's right, title and interest in, to and under the Collateral set forth on Schedule A attached hereto (collectively, the "Patent Collateral");

WHEREAS, the Patent Security Agreement was recorded in the United States Patent and Trademark Office on September 29, 2017, at Reel/Frame 043744/0200; and

WHEREAS, Collateral Agent wishes to terminate, cancel and release its security interest in the Patent Collateral.

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, and upon the terms set forth in this Termination, Grantee hereby states as follows:

1. Definitions. The term "Patent Collateral" as used herein, shall mean and include:

   a. all of such Grantor's patents, patent application applications and all recordings thereof (collectively, "Patents"), and licenses for any of the foregoing ("Licenses"), including those referred to on Schedule A hereto;

   b. all reissues, continuations, continuations-in-part, substitutes, extensions or renewals of and improvements on the foregoing; and

   c. all products and proceeds of the foregoing, including all income and royalties therefrom and any claim by such Grantor against third parties for past, present or future infringement or dilution of any Patent or any Patent licensed under any License.

2. Release of Security Interest. Grantee hereby terminates the Security Agreement and terminates, releases and discharges its security interest in the Patents and all other Patent Collateral and reassigns to the person or persons legally entitled thereto all right, title and interest of Grantee in the Patents and all other Patent Collateral.

3. Recording. Grantee hereby authorizes each Grantor and/or such Grantor's agents, representatives or designees, to record this Termination and Release of Patent Security Agreement with the United States Patent Trademark Office.

IN WITNESS WHEREOF, the Grantee has executed this Termination and Release as of the date first above written.

MANN GROUP, LLC

By: _____

Name: Anoosheh Bostan

Title: President

PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
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.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 13/745,830	Filing Date 01/20/2013	☐ To be Mailed

ENTITY: ☒ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT 09/02/2016	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	* 20	Minus	** 21	= 0	X $80 =	0
Independent (37 CFR 1.16(h))	* 3	Minus	***3	= 0	X $420 =	0
☐ Application Size Fee (37 CFR 1.16(s))						
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
					TOTAL ADD'L FEE	0

AMENDMENT	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	*	Minus	**	=	X $ =	
Independent (37 CFR 1.16(h))	*	Minus	***	=	X $ =	
☐ Application Size Fee (37 CFR 1.16(s))						
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
					TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

LIE
/CORALIA BETANCOURT/

This collection of information is required by 37 CFR 1.16. 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 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.

PTO/SB/06 (09-11)
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 13/745,830	Filing Date 01/20/2013	☐ To be Mailed

ENTITY: ☒ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT 09/11/2015

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	* 13	Minus	** 20	= 0	X $80 =	0
Independent (37 CFR 1.16(h))	* 3	Minus	***3	= 0	X $420 =	0
☐ Application Size Fee (37 CFR 1.16(s))						
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
					TOTAL ADD'L FEE	0

AMENDMENT

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	*	Minus	**	=	X $ =	
Independent (37 CFR 1.16(h))	*	Minus	***	=	X $ =	
☐ Application Size Fee (37 CFR 1.16(s))						
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
					TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

LIE
/DONNA PRICE/

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PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 13/745,830

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY FEE($)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	280
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	600
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	720
TOTAL CLAIMS (37 CFR 1.16(i))	21 minus 20 =	* 1			OR	x 80 =	80
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3 minus 3 =	*				x 420 =	0.00
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						0.00
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							0.00
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	1680

APPLICATION AS AMENDED - PART II

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY ADDITIONAL FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE($)
AMENDMENT A	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE($)	ADDITIONAL FEE($)		RATE($)	ADDITIONAL FEE($)
AMENDMENT B	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.

PTO/SB/06 (09-11)
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 13/745,830	Filing Date 01/20/2013	☐ To be Mailed

ENTITY: ☒ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT	03/15/2016	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0	X $80 =	0
	Independent (37 CFR 1.16(h))	* 3	Minus	***3	= 0	X $420 =	0
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
						TOTAL ADD'L FEE	**0**

AMENDMENT		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	*	Minus	**	=	X $ =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X $ =	
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
						TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

LIE
/SONYA HILLIARD/

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

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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 13/745,830	Filing Date 01/20/2013	☐ To be Mailed

ENTITY: ☒ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT 04/13/2016

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0	X $80 =	0
Independent (37 CFR 1.16(h))	* 3	Minus	***3	= 0	X $420 =	0
☐ Application Size Fee (37 CFR 1.16(s))						
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
					TOTAL ADD'L FEE	0

AMENDMENT

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	*	Minus	**	=	X $ =	
Independent (37 CFR 1.16(h))	*	Minus	***	=	X $ =	
☐ Application Size Fee (37 CFR 1.16(s))						
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
					TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

LIE
/SONYA HILLIARD/

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PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 13/745,830

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY FEE($)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	390
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	620
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	250
TOTAL CLAIMS (37 CFR 1.16(i))	21 minus 20 =	* 1			OR	x 62 =	62
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3 minus 3 =	*				x 250 =	0.00
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						0.00
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							0.00
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	1322

APPLICATION AS AMENDED - PART II

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY ADDITIONAL FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE($)
AMENDMENT A	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE($)	ADDITIONAL FEE($)		RATE($)	ADDITIONAL FEE($)
AMENDMENT B	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13745830	GLUKHOVSKY, ARKADY
	Examiner	**Art Unit**
	ERIC KURILLA	3673

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

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

CLAIM		DATE								
Final	Original	01/22/2015								
	1	÷								
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	21	÷								

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13745830	GLUKHOVSKY, ARKADY
	Examiner	**Art Unit**
	ERIC KURILLA	3673

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

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

CLAIM		DATE								
Final	Original	01/22/2015	05/20/2015							
	1	÷	✓							
	2	÷	✓							
	3	÷	✓							
	4	÷	✓							
	5	÷	✓							
	6	÷	✓							
	7	÷	✓							
	8	÷	✓							
	9	÷	N							
	10	÷	N							
	11	÷	N							
	12	÷	N							
	13	÷	N							
	14	÷	N							
	15	÷	N							
	16	÷	N							
	17	÷	✓							
	18	÷	✓							
	19	÷	✓							
	20	÷	✓							
	21	÷	✓							

Aretech LLC - Exhibit 1002, Page 00385

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13745830	GLUKHOVSKY, ARKADY
	Examiner	**Art Unit**
	ERIC KURILLA	3673

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

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

CLAIM		DATE								
Final	Original	01/22/2015	05/20/2015	12/04/2015	05/16/2016					
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	3	÷	✓	✓	=					
	4	÷	✓	✓	=					
	5	÷	✓	✓	-					
	6	÷	✓	✓	=					
	7	÷	✓	✓	=					
	8	÷	✓	✓	=					
	9	÷	N	-	-					
	10	÷	N	-	-					
	11	÷	N	-	-					
	12	÷	N	-	-					
	13	÷	N	-	-					
	14	÷	N	-	-					
	15	÷	N	-	-					
	16	÷	N	-	-					
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	18	÷	✓	✓	✓					
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	22				✓					
	23				✓					
	24				✓					
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	26				✓					
	27				✓					
	28				✓					
	29				✓					

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13745830	GLUKHOVSKY ET AL.
	Examiner	Art Unit
	ERIC KURILLA	3673

CPC- SEARCHED		
Symbol	Date	Examiner
A61G7/1017, A61G7/1015, A61G7/1011, A61G7/1042, A61H3/008, A61G7/1001, A61G7/1049	5/20/2015	EK

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner

SEARCH NOTES		
Search Notes	Date	Examiner
Inventor name search	05/20/2015	EK
EAST text search	05/20/2015	EK
Updated search	12/04/2015	EK
Updated search	05/16/2016	EK

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner

/E.K./ Examiner.Art Unit 3673	

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13745830	GLUKHOVSKY ET AL.
	Examiner	**Art Unit**
	ERIC KURILLA	3673

CPC						
Symbol					**Type**	**Version**
A61G		7	/	1042	F	2013-01-01
A61G		7	/	1001	I	2013-01-01
A61G		7	/	1049	I	2013-01-01
A63B		69	/	0064	I	2013-01-01
A61H		3	/	008	I	2013-01-01
A63B		21	/	0058	I	2013-01-01
A63B		21	/	068	I	2013-01-01
A63B		24	/	0087	I	2013-01-01
A61H		2201	/	50	A	2013-01-01
A61H		2201	/	501	A	2013-01-01
A61H		2201	/	5061	A	2013-01-01
A61H		2201	/	5064	A	2013-01-01
A61H		2201	/	5079	A	2013-01-01
A61H		2201	/	5084	A	2013-01-01
A61H		2201	/	5092	A	2013-01-01
A61H		2201	/	5097	A	2013-01-01
A63B		2022	/	0094	A	2013-01-01
A63B		2024	/	0093	A	2013-01-01
A63B		2071	/	0063	A	2013-01-01
A63B		2071	/	0081	A	2013-01-01
A63B		2071	/	0683	A	2013-01-01
A63B		2220	/	10	A	2013-01-01
A63B		2220	/	30	A	2013-01-01
A63B		2220	/	40	A	2013-01-01
A63B		2220	/	52	A	2013-01-01
A63B		2220	/	802	A	2013-01-01
A63B		2220	/	806	A	2013-01-01
A63B		2225	/	107	A	2013-01-01
A63B		2225	/	20	A	2013-01-01
A63B		2225	/	50	A	2013-01-01
A63B		21	/	00181	I	2013-01-01

/ERIC KURILLA/ Examiner.Art Unit 3673	12/7/2016	**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	20	
/DAVID E SOSNOWSKI/ Primary Examiner.Art Unit 3673	12/07/2016	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	2 and 10

Aretech LLC - Exhibit 1002, Page 00388

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13745830	GLUKHOVSKY ET AL.
	Examiner	**Art Unit**
	ERIC KURILLA	3673

CPC Combination Sets					
Symbol	**Type**	**Set**	**Ranking**	**Version**

/ERIC KURILLA/ Examiner.Art Unit 3673 (Assistant Examiner)	12/7/2016 (Date)	**Total Claims Allowed:** 20	
/DAVID E SOSNOWSKI/ Primary Examiner.Art Unit 3673 (Primary Examiner)	12/07/2016 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 2 and 10

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13745830	GLUKHOVSKY ET AL.
	Examiner	**Art Unit**
	ERIC KURILLA	3673

US ORIGINAL CLASSIFICATION		INTERNATIONAL CLASSIFICATION										
CLASS	SUBCLASS	CLAIMED					NON-CLAIMED					
		A	6	1	G	7 / 10 (2006.01.01)						
CROSS REFERENCE(S)		A	6	3	B	69 / 00 (2006.01.01)						
		A	6	3	B	21 / 06 (2006.01.01)						

CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)				

/ERIC KURILLA/ Examiner.Art Unit 3673	12/7/2016	**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	20	
/DAVID E SOSNOWSKI/ Primary Examiner.Art Unit 3673	12/07/2016	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	2 and 10

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13745830	GLUKHOVSKY ET AL.
	Examiner	**Art Unit**
	ERIC KURILLA	3673

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

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original

/ERIC KURILLA/ Examiner.Art Unit 3673	12/7/2016	**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	20	
/DAVID E SOSNOWSKI/ Primary Examiner.Art Unit 3673	12/07/2016	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	2 and 10

Aretech LLC - Exhibit 1002, Page 00391

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13745830	GLUKHOVSKY ET AL.
	Examiner	**Art Unit**
	ERIC KURILLA	3673

CPC							
Symbol						**Type**	**Version**
A61G	/	7	/	1042		F	2013-01-01
A61G	/	7	/	1001		I	2013-01-01
A61G	/	7	/	1049		I	2013-01-01
A63B	/	69	/	0064		I	2013-01-01
A61H	/	3	/	008		I	2013-01-01
A63B	/	21	/	0058		I	2013-01-01
A63B	/	21	/	068		I	2013-01-01
A63B	/	24	/	0087		I	2013-01-01
A61H	/	2201	/	50		A	2013-01-01
A61H	/	2201	/	501		A	2013-01-01
A61H	/	2201	/	5061		A	2013-01-01
A61H	/	2201	/	5064		A	2013-01-01
A61H	/	2201	/	5079		A	2013-01-01
A61H	/	2201	/	5084		A	2013-01-01
A61H	/	2201	/	5092		A	2013-01-01
A61H	/	2201	/	5097		A	2013-01-01
A63B	/	2022	/	0094		A	2013-01-01
A63B	/	2024	/	0093		A	2013-01-01
A63B	/	2071	/	0063		A	2013-01-01
A63B	/	2071	/	0081		A	2013-01-01
A63B	/	2071	/	0683		A	2013-01-01
A63B	/	2220	/	10		A	2013-01-01
A63B	/	2220	/	30		A	2013-01-01
A63B	/	2220	/	40		A	2013-01-01
A63B	/	2220	/	52		A	2013-01-01
A63B	/	2220	/	802		A	2013-01-01
A63B	/	2220	/	806		A	2013-01-01
A63B	/	2225	/	107		A	2013-01-01
A63B	/	2225	/	20		A	2013-01-01
A63B	/	2225	/	50		A	2013-01-01
A63B	/	21	/	00181		I	2013-01-01

/ERIC KURILLA/ Examiner.Art Unit 3673	12/7/2016	**Total Claims Allowed:**	
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/DAVID E SOSNOWSKI/ Primary Examiner.Art Unit 3673	12/07/2016	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	2 and 10

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
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	Examiner	**Art Unit**
	ERIC KURILLA	3673

CPC Combination Sets				
Symbol	**Type**	**Set**	**Ranking**	**Version**

/ERIC KURILLA/ Examiner.Art Unit 3673	12/7/2016	**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	20	
/DAVID E SOSNOWSKI/ Primary Examiner.Art Unit 3673	12/07/2016	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	2 and 10

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	Examiner	**Art Unit**
	ERIC KURILLA	3673

US ORIGINAL CLASSIFICATION		INTERNATIONAL CLASSIFICATION										
CLASS	SUBCLASS	CLAIMED					NON-CLAIMED					
		A	6	1	G	7 / 10						
CROSS REFERENCE(S)		A	6	3	B	69 / 00						
		A	6	3	B	21 / 06						
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)											

/ERIC KURILLA/ Examiner.Art Unit 3673	12/7/2016	**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	20	
/DAVID E SOSNOWSKI/ Primary Examiner.Art Unit 3673	12/07/2016	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	2 and 10

Aretech LLC - Exhibit 1002, Page 00394

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13745830	GLUKHOVSKY ET AL.
	Examiner	**Art Unit**
	ERIC KURILLA	3673

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

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original

/ERIC KURILLA/ Examiner.Art Unit 3673	12/7/2016	**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	20	
/DAVID E SOSNOWSKI/ Primary Examiner.Art Unit 3673	12/07/2016	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	2 and 10

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13745830	GLUKHOVSKY ET AL.
	Examiner	Art Unit
	ERIC KURILLA	3673

CPC- SEARCHED		
Symbol	Date	Examiner
A61G7/1017, A61G7/1015, A61G7/1011, A61G7/1042, A61H3/008, A61G7/1001, A61G7/1049	5/20/2015	EK

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
212	71	12/7/2016	EK
414	921, 560	12/7/2016	EK

SEARCH NOTES		
Search Notes	Date	Examiner
Inventor name search	05/20/2015	EK
EAST text search	05/20/2015	EK
Updated search	12/04/2015	EK
Updated search	05/16/2016	EK
Updated search	12/7/2016	EK
Received USPC search from examiner Nick Polito	12/7/2016	EK

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
	See EAST Printout	12/7/2016	EK

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13745830	GLUKHOVSKY ET AL.
	Examiner	Art Unit
	ERIC KURILLA	3673

CPC- SEARCHED		
Symbol	Date	Examiner
A61G7/1017, A61G7/1015, A61G7/1011, A61G7/1042, A61H3/008, A61G7/1001, A61G7/1049	5/20/2015	EK

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
212	71	12/7/2016	EK
414	921, 560	12/7/2016	EK

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Inventor name search	05/20/2015	EK
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Updated search	12/04/2015	EK
Updated search	05/16/2016	EK
Updated search	12/7/2016	EK
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US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
	See EAST Printout	12/7/2016	EK

/E.K./ Examiner.Art Unit 3673	

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
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	Examiner	**Art Unit**
	ERIC KURILLA	3673

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CLAIM		DATE								
Final	Original	01/22/2015	05/20/2015	12/04/2015						
	1	÷	✓	✓						
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	3	÷	✓	✓						
	4	÷	✓	✓						
	5	÷	✓	✓						
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	8	÷	✓	✓						
	9	÷	N	-						
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	18	÷	✓	✓						
	19	÷	✓	✓						
	20	÷	✓	✓						
	21	÷	✓	✓						

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
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A61G7/1017, A61G7/1015, A61G7/1011, A61G7/1042, A61H3/008, A61G7/1001, A61G7/1049	5/20/2015	EK

CPC COMBINATION SETS - SEARCHED		
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Class	Subclass	Date	Examiner

SEARCH NOTES		
Search Notes	Date	Examiner
Inventor name search	05/20/2015	EK
EAST text search	05/20/2015	EK
Updated search	12/04/2015	EK

INTERFERENCE SEARCH			
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	Examiner	Art Unit
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CPC- SEARCHED		
Symbol	Date	Examiner
A61G7/1017, A61G7/1015, A61G7/1011, A61G7/1042, A61H3/008, A61G7/1001, A61G7/1049	5/20/2015	EK

CPC COMBINATION SETS - SEARCHED		
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Class	Subclass	Date	Examiner

SEARCH NOTES		
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Inventor name search	05/20/2015	EK
EAST text search	05/20/2015	EK

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner

/E.K./ Examiner.Art Unit 3673	

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
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L4	885	L2 not L3	US-PGPUB; USPAT; EPO; JPO	OR	ON	2016/12/07 14:33
L5	43	(conduct$3) and L4	US-PGPUB; USPAT; EPO; JPO	OR	ON	2016/12/07 14:59
L6	391	(power) and L4	US-PGPUB; USPAT; EPO; JPO	OR	ON	2016/12/07 15:03
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		A61G7/1049).cpc.	USPAT; EPO; JPO			
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S5	89	("0687633" | "2272788" | "3937151" | "4003479" | "4125908").PN. OR ("4243147").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2015/05/19 14:26
S6	226	gait and S3	US-PGPUB; USPAT; USOCR	OR	ON	2015/05/19 14:31
S7	0	(("2008287268") or ("2005232733")).PN.	US-PGPUB; USPAT; EPO	OR	OFF	2015/05/19 16:01
S8	2	(("7883450") or ("7137771")).PN.	US-PGPUB; USPAT; EPO	OR	OFF	2015/05/19 16:02
S9	1	("20070004567").PN.	US-PGPUB; USPAT; EPO	OR	OFF	2015/05/19 16:03
S10	677	gait and S1	US-PGPUB; USPAT; USOCR	OR	ON	2015/05/19 16:28
S11	17879314	not S5	US-PGPUB; USPAT; USOCR	OR	ON	2015/05/19 16:28
S12	9266	(A61G7/1042 or A63B21/0058 or A63B24/0087 or A63B21/068 or A61H3/008 or A63B21/00181 or A63B69/0064 or A61G7/1001 or A61G7/1049 or A63B2220/30 or A61H2201/5092 or A61H2201/5079 or A61H2201/50 or A63B2225/107 or A63B2220/52 or A63B2071/0683 or A61H2201/5084 or A63B2225/50 or A61H2201/5064 or A63B2225/20 or A63B2220/802 or A61H2201/501 or A63B2024/0093 or A63B2071/0081 or A63B2220/806 or A63B2220/40 or A61H2201/5097 or A63B2220/10 or A63B2071/0063 or A61H2201/5061 or A63B2022/0094).cpc.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2015/05/20 08:06
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			EPO; JPO			
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S15	677	gait and S12	US-PGPUB; USPAT; USOCR	OR	ON	2015/05/20 08:06
S16	457	S15 not S14	US-PGPUB; USPAT; USOCR	OR	ON	2015/05/20 08:06
S17	25	("20050239613" | "3985082" | "4252063" | "6315138" | "6645126" | "4911426" | "6436009" | "5337908" | "6464208" | "4445502" | "6666831" | "3780663" | "5850928" | "20070004567" | "4243147" | "6244991" | "4973044" | "6080087" | "20050105772" | "5190507" | "6890288" | "7240621" | "7462138" | "5704881").PN.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2015/05/20 08:31
S18	46	(US-20080287268-$ or US-20070004567-$ or US-20140206503-$ or US-20120198612-$ or US-20120000876-$ or US-20110000015-$ or US-20100312152-$ or US-20050115914-$ or US-20100000546-$ or US-20090308828-$ or US-20030201374-$ or US-20060240952-$ or US-20030084508-$ or US-20030200607-$ or US-20010027149-$ or US-20030153438-$).did. or (US-7883450-$ or US-7137771-$ or US-4243147-$ or US-8978905-$ or US-8789682-$ or US-8584274-$ or US-8397320-$ or US-7462138-$ or US-6520484-$ or US-5809591-$ or US-5337908-$ or US-4639955-$ or US-4627119-$ or US-7993248-$ or US-7618223-$ or US-6464208-$ or US-6080087-$ or US-5138953-$ or US-4944056-$ or US-4606082-$ or US-4372452-$ or US-4360307-$ or US-3780663-$ or US-2819755-$ or US-1971294-$ or US-1536766-$).did. or (US-7240621-$ or US-6890288-$ or US-5850928-$ or US-3985082-$).did.	US-PGPUB; USPAT	OR	ON	2015/05/20 08:32
S19	2	(active and passive) and S18	US-PGPUB; USPAT; EPO; JPO	OR	ON	2015/05/20 08:32
S20	13	light and S18	US-PGPUB; USPAT; EPO; JPO	OR	ON	2015/05/20 09:01
S21	43	(US-20080287268-$ or US-20070004567-$ or US-20140206503-$ or US-20120198612-$ or US-20120000876-$ or US-20110000015-$ or US-20100312152-$	US-PGPUB; USPAT	OR	ON	2015/05/20 09:52

		or US-20050115914-$ or US-20100000546-$ or US-20090308828-$ or US-20030201374-$ or US-20060240952-$ or US-20030084508-$ or US-20030200607-$ or US-20010027149-$ or US-20030153438-$).did. or (US-8978905-$ or US-8789682-$ or US-8584274-$ or US-8397320-$ or US-7462138-$ or US-6520484-$ or US-5809591-$ or US-5337908-$ or US-4639955-$ or US-4627119-$ or US-7993248-$ or US-7618223-$ or US-6464208-$ or US-6080087-$ or US-5138953-$ or US-4944056-$ or US-4606082-$ or US-4372452-$ or US-4360307-$ or US-3780663-$ or US-2819755-$ or US-1971294-$ or US-1536766-$ or US-7240621-$ or US-6890288-$ or US-5850928-$).did. or (US-3985082-$).did.				
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S23	3	"7137771"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2015/12/03 16:50
S24	739	(A61G2203/42| A61G2203/44).CLAS,CCLS,CPC,CPCL.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2016/05/16 18:26
S25	64	(angle with compensat$3) and S24	US-PGPUB; USPAT; EPO; JPO	OR	ON	2016/05/16 18:27
S26	10765	(A61G7/1042 or A63B21/0058 or A63B24/0087 or A63B21/068 or A61H3/008 or A63B21/00181 or A63B69/0064 or A61G7/1001 or A61G7/1049 or A63B2220/30 or A61H2201/5092 or A61H2201/5079 or A61H2201/50 or A63B2225/107 or A63B2220/52 or A63B2071/0683 or A61H2201/5084 or A63B2225/50 or A61H2201/5064 or A63B2225/20 or A63B2220/802 or A61H2201/501 or A63B2024/0093 or A63B2071/0081 or A63B2220/806 or A63B2220/40 or A61H2201/5097 or A63B2220/10 or A63B2071/0063 or A61H2201/5061 or A63B2022/0094).cpc.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2016/05/16 18:34
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EAST Search History (Interference)

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12/7/2016 5:04:49 PM
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SCHEDULE A

Patent Collateral

Description	Registration/ Application No.	Issue/ Application Date
SYSTEM AND METHOD FOR PERCUTANEOUS DELIVERY OF ELCTRICAL STIMULATION TO A TARGET BODY TISSUE	8483820	7/09/2013
SYSTEM FOR TRANMITTING ELECTRICAL CURRENT TO A BODILY TISSUE	8467880	6/18/2013
SYSTEM FOR TRANSMITTING ELECTRICAL CURRENT TO A BODILY TISSUE	8738137	5/27/2014
SYSTEM FOR TRANSMITTING ELECTRICAL CURRENT TO A BODILY TISSUE	9757554	9/12/2017
SYSTEM FOR TRANSMITTING ELECTRICAL CURRENT TO A BODILY TISSUE	9072896	7/07/2015
SYSTEM FOR TRANSMITTING ELECTRICAL CURRENT TO A BODILY TISSUE	15700889	9/11/2017
IMPLANT SYSATEM AND METHOD USING IMPLANTED PASSSIVE ONDUCTORS FOR ROUTINE ELECTRICAL CURRENT	8332029	12/11/2012
IMPLANT SYSATEM AND METHOD USING IMPLANTED PASSSIVE ONDUCTORS FOR ROUTINE ELECTRICAL CURRENT	8538517	9/17/2013
IMPLANT SYSATEM AND METHOD USING IMPLANTED PASSSIVE ONDUCTORS FOR ROUTINE ELECTRICAL CURRENT	8862225	10/14/2014
TREATMENT OF INDICATIONS USING ELECTRICAL STIMULATION	13000840	6/24/2009
INSERTION TOOLS AND METHODS FOR AN ELECTRICAL STIMULATION IMPLANT	8494650	7/23/2013

Description	Registration/ Application No.	Issue/ Application Date
METHOD OF ROUTING ELETRICAL CURRENT TO BODILY TISSUES VIA IMPLANTE PASSIVE CONDUSTORS	7502652	3/10/2009
METHOD OF ROUTING ELETRICAL CURRENT TO BODILY TISSUES VIA IMPLANTE PASSIVE CONDUSTORS	8406886	3/28/2013
METHOD OF ROUTING ELETRICAL CURRENT TO BODILY TISSUES VIA IMPLANTE PASSIVE CONDUSTORS	9072886	7/07/2015
SURFACE NEUROPROSTHETIC DEVICE HAVING A LOCATING SYSTEM	7337007	2/26/2008
FLEXIBLE CONNECTOR FOR IMPLANTABLE ELECTRICAL STIMULATION LEAD	8167640	5/01/2012
METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM	9682000	6/20/2017
METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM	US1412064	1/17/2014
METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM	14226021	3/26/2014
METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM	14613140	2/03/2015
METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM	62458648	2/14/2017
METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM	15471585	3/28/2017
METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM	15698184	9/07/2017
METHODS AND APPARATUS FOR BODY WEIGHT SUPPORT SYSTEM	US17050482	9/07/2017
SYSTEMS AND APPARATUS FOR GAIL MODULATION AND METHODS OF USE	14223340	3/24/2014
METHODS AND APPARATUS FOR BALANCE SUPPORT SYSTEMS	15013277	2/02/2016
APPARATUS AND METHODS FOR SUPPORT TRACK AND POWER FAIL SWITCHING IN A BODY WEIGHT SUPPORT SYSTEM	15349390	11/11/2016

Description	Registration/ Application No.	Issue/ Application Date
APPARATUS AND METHODS FOR SUPPORT TRACK AND POWER FAIL SWITCHING IN A BODY WEIGHT SUPPORT SYSTEM	US1661552	11/11/2016
SYSTEMS AND APPARATUS FOR GAIL MODULATION AND METHODS OF USE	US1712977	1/11/2017

EAST Search History

EAST Search History (Prior Art)

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L5	10765	(A61G7/1042 or A63B21/0058 or A63B24/0087 or A63B21/068 or A61H3/008 or A63B21/00181 or A63B69/0064 or A61G7/1001 or A61G7/1049 or A63B2220/30 or A61H2201/5092 or A61H2201/5079 or A61H2201/50 or A63B2225/107 or A63B2220/52 or A63B2071/0683 or A61H2201/5084 or A63B2225/50 or A61H2201/5064 or A63B2225/20 or A63B2220/802 or A61H2201/501 or A63B2024/0093 or A63B2071/0081 or A63B2220/806 or A63B2220/40 or A61H2201/5097 or A63B2220/10 or A63B2071/0063 or A61H2201/5061 or A63B2022/0094).cpc.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2016/05/16 18:34
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S1	9266	(A61G7/1042 or A63B21/0058 or A63B24/0087 or A63B21/068 or A61H3/008 or A63B21/00181 or A63B69/0064 or A61G7/1001 or A61G7/1049 or A63B2220/30 or A61H2201/5092 or A61H2201/5079 or A61H2201/50 or A63B2225/107 or A63B2220/52 or A63B2071/0683 or A61H2201/5084 or A63B2225/50 or A61H2201/5064 or A63B2225/20 or A63B2220/802 or A61H2201/501 or A63B2024/0093 or A63B2071/0081 or A63B2220/806 or A63B2220/40 or A61H2201/5097 or A63B2220/10 or A63B2071/0063 or A61H2201/5061 or A63B2022/0094).cpc.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2015/05/19 14:13
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S5	89	("0687633" | "2272788" | "3937151" | "4003479" | "4125908").PN. OR ("4243147").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2015/05/19 14:26
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S8	2	(("7883450") or ("7137771")).PN.	US-PGPUB; USPAT; EPO	OR	OFF	2015/05/19 16:02
S9	1	("20070004567").PN.	US-PGPUB; USPAT; EPO	OR	OFF	2015/05/19 16:03
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S12	9266	(A61G7/1042 or A63B21/0058 or A63B24/0087 or A63B21/068 or A61H3/008 or A63B21/00181 or A63B69/0064 or A61G7/1001 or A61G7/1049 or A63B2220/30 or A61H2201/5092 or A61H2201/5079 or A61H2201/50 or A63B2225/107 or A63B2220/52 or A63B2071/0683 or A61H2201/5084 or A63B2225/50 or A61H2201/5064 or A63B2225/20 or A63B2220/802 or A61H2201/501 or A63B2024/0093 or A63B2071/0081 or A63B2220/806 or A63B2220/40 or A61H2201/5097 or A63B2220/10 or A63B2071/0063 or A61H2201/5061 or A63B2022/0094).cpc.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2015/05/20 08:06
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S15	677	gait and S12	US-PGPUB; USPAT; USOCR	OR	ON	2015/05/20 08:06
S16	457	S15 not S14	US-PGPUB; USPAT; USOCR	OR	ON	2015/05/20 08:06
S17	25	("20050239613" | "3985082" | "4252063" | "6315138" | "6645126" | "4911426" | "6436009" | "5337908" | "6464208" | "4445502" | "6666831" | "3780663" | "5850928" | "20070004567" | "4243147" | "6244991" | "4973044" | "6080087" | "20050105772" | "5190507" | "6890288" | "7240621" | "7462138" | "5704881").PN.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2015/05/20 08:31
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S19	2	(active and passive) and S18	US-PGPUB; USPAT; EPO; JPO	OR	ON	2015/05/20 08:32
S20	13	light and S18	US-PGPUB; USPAT; EPO; JPO	OR	ON	2015/05/20 09:01
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		US-20030201374-$ or US-20060240952-$ or US-20030084508-$ or US-20030200607-$ or US-20010027149-$ or US-20030153438-$).did. or (US-8978905-$ or US-8789682-$ or US-8584274-$ or US-8397320-$ or US-7462138-$ or US-6520484-$ or US-5809591-$ or US-5337908-$ or US-4639955-$ or US-4627119-$ or US-7993248-$ or US-7618223-$ or US-6464208-$ or US-6080087-$ or US-5138953-$ or US-4944056-$ or US-4606082-$ or US-4372452-$ or US-4360307-$ or US-3780663-$ or US-2819755-$ or US-1971294-$ or US-1536766-$ or US-7240621-$ or US-6890288-$ or US-5850928-$).did. or (US-3985082-$).did.				
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EAST Search History (Prior Art)

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S8	2	(("7883450") or ("7137771")).PN.	US-PGPUB; USPAT; EPO	OR	OFF	2015/05/19 16:02
S9	1	("20070004567").PN.	US-PGPUB; USPAT;	OR	OFF	2015/05/19 16:03

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S11	17879314	not S5	US-PGPUB; USPAT; USOCR	OR	ON	2015/05/19 16:28
S12	9266	(A61G7/1042 or A63B21/0058 or A63B24/0087 or A63B21/068 or A61H3/008 or A63B21/00181 or A63B69/0064 or A61G7/1001 or A61G7/1049 or A63B2220/30 or A61H2201/5092 or A61H2201/5079 or A61H2201/50 or A63B2225/107 or A63B2220/52 or A63B2071/0683 or A61H2201/5084 or A63B2225/50 or A61H2201/5064 or A63B2225/20 or A63B2220/802 or A61H2201/501 or A63B2024/0093 or A63B2071/0081 or A63B2220/806 or A63B2220/40 or A61H2201/5097 or A63B2220/10 or A63B2071/0063 or A61H2201/5061 or A63B2022/0094).cpc.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2015/05/20 08:06
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S16	457	S15 not S14	US-PGPUB; USPAT; USOCR	OR	ON	2015/05/20 08:06
S17	25	("20050239613" | "3985082" | "4252063" | "6315138" | "6645126" | "4911426" | "6436009" | "5337908" | "6464208" | "4445502" | "6666831" | "3780663" | "5850928" | "20070004567" | "4243147" | "6244991" | "4973044" | "6080087" | "20050105772" | "5190507" | "6890288" | "7240621" | "7462138" | "5704881").PN.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2015/05/20 08:31
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S19	2	(active and passive) and S18	US-PGPUB; USPAT; EPO; JPO	OR	ON	2015/05/20 08:32
S20	13	light and S18	US-PGPUB; USPAT; EPO; JPO	OR	ON	2015/05/20 09:01
S21	43	(US-20080287268-$ or US-20070004567-$ or US-20140206503-$ or US-20120198612-$ or US-20120000876-$ or US-20110000015-$ or US-20100312152-$ or US-20050115914-$ or US-20100000546-$ or US-20090308828-$ or US-20030201374-$ or US-20060240952-$ or US-20030084508-$ or US-20030200607-$ or US-20010027149-$ or US-20030153438-$).did. or (US-8978905-$ or US-8789682-$ or US-8584274-$ or US-8397320-$ or US-7462138-$ or US-6520484-$ or US-5809591-$ or US-5337908-$ or US-4639955-$ or US-4627119-$ or US-7993248-$ or US-7618223-$ or US-6464208-$ or US-6080087-$ or US-5138953-$ or US-4944056-$ or US-4606082-$ or US-4372452-$ or US-4360307-$ or US-3780663-$ or US-2819755-$ or US-1971294-$ or US-1536766-$ or US-7240621-$ or US-6890288-$ or US-5850928-$).did. or (US-3985082-$).did.	US-PGPUB; USPAT	OR	ON	2015/05/20 09:52
S22	282	(a61G7/1042).CPC.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2015/12/03 14:04
S23	3	"7137771"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2015/12/03 16:50
S24	739	(A61G2203/42| A61G2203/44).CLAS,CCLS,CPC,CPCL.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2016/05/16 18:26

S25	64	(angle with compensat$3) and S24	US-PGPUB; USPAT; EPO; JPO	OR	ON	2016/05/16 18:27
S26	10765	(A61G7/1042 or A63B21/0058 or A63B24/0087 or A63B21/068 or A61H3/008 or A63B21/00181 or A63B69/0064 or A61G7/1001 or A61G7/1049 or A63B2220/30 or A61H2201/5092 or A61H2201/5079 or A61H2201/50 or A63B2225/107 or A63B2220/52 or A63B2071/0683 or A61H2201/5084 or A63B2225/50 or A61H2201/5064 or A63B2225/20 or A63B2220/802 or A61H2201/501 or A63B2024/0093 or A63B2071/0081 or A63B2220/806 or A63B2220/40 or A61H2201/5097 or A63B2220/10 or A63B2071/0063 or A61H2201/5061 or A63B2022/0094).cpc.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2016/05/16 18:34
S27	44	(sens$3 with detect$3 with pivot$3) and S26	US-PGPUB; USPAT; EPO; JPO	OR	ON	2016/05/16 18:34
S28	2	(("20120000876") or ("20080287268")).PN.	US-PGPUB; USPAT; EPO	OR	OFF	2016/12/07 12:55
S29	948	((212/71) or (414/921) or (414/560)).CCLS.	US-PGPUB; USPAT; EPO	OR	OFF	2016/12/07 14:30
S30	1863	(A61G7/1017, A61G7/1015, A61G7/1011, A61G7/1042, A61H3/008, A61G7/1001, A61G7/1049).cpc.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2016/12/07 14:33
S31	885	S29 not S30	US-PGPUB; USPAT; EPO; JPO	OR	ON	2016/12/07 14:33
S32	43	(conduct$3) and S31	US-PGPUB; USPAT; EPO; JPO	OR	ON	2016/12/07 14:59
S33	391	(power) and S31	US-PGPUB; USPAT; EPO; JPO	OR	ON	2016/12/07 15:03
S34	11	("20030075415" | "20040083025" | "20080044262" | "20080101892" | "6802413" | "7219769" | "7558645" | "8027515").PN. OR ("8374420").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/07 16:17
S37	2	(("6192803") or ("20110265260")).PN.	US-PGPUB;	OR	OFF	2017/01/03 11:34

			USPAT; EPO			

EAST Search History (Interference)

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S35	0	(trolley and conductor and patient and power and inner and track and parallel).CLM.	US-PGPUB; USPAT	OR	ON	2016/12/07 17:04
S36	0	(trolley and conductor and patient and powered and inner and track and parallel).CLM.	US-PGPUB; USPAT	OR	ON	2016/12/07 17:04

1/4/2017 10:59:03 AM
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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	9266	(A61G7/1042 or A63B21/0058 or A63B24/0087 or A63B21/068 or A61H3/008 or A63B21/00181 or A63B69/0064 or A61G7/1001 or A61G7/1049 or A63B2220/30 or A61H2201/5092 or A61H2201/5079 or A61H2201/50 or A63B2225/107 or A63B2220/52 or A63B2071/0683 or A61H2201/5084 or A63B2225/50 or A61H2201/5064 or A63B2225/20 or A63B2220/802 or A61H2201/501 or A63B2024/0093 or A63B2071/0081 or A63B2220/806 or A63B2220/40 or A61H2201/5097 or A63B2220/10 or A63B2071/0063 or A61H2201/5061 or A63B2022/0094).cpc.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2015/05/20 08:06
L3	1688	(A61G7/1017, A61G7/1015, A61G7/1011, A61G7/1042, A61H3/008, A61G7/1001, A61G7/1049).cpc.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2015/05/20 08:06
L4	226	gait and L3	US-PGPUB; USPAT; USOCR	OR	ON	2015/05/20 08:06
L5	677	gait and L2	US-PGPUB; USPAT; USOCR	OR	ON	2015/05/20 08:06
L6	457	L5 not L4	US-PGPUB; USPAT; USOCR	OR	ON	2015/05/20 08:06
L9	25	("20050239613" | "3985082" | "4252063" | "6315138" | "6645126" | "4911426" | "6436009" | "5337908" | "6464208" | "4445502" | "6666831" | "3780663" | "5850928" | "20070004567" | "4243147" | "6244991" | "4973044" | "6080087" | "20050105772" | "5190507" | "6890288" | "7240621" | "7462138" | "5704881").PN.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2015/05/20 08:31
L10	46	(US-20080287268-$ or US-20070004567-$ or US-20140206503-$ or US-20120198612-$ or US-20120000876-$ or US-20110000015-$ or US-20100312152-$ or US-20050115914-$ or US-20100000546-$ or US-20090308828-$ or US-20030201374-$ or US-20060240952-$ or US-20030084508-$ or US-20030200607-$ or US-20010027149-$ or	US-PGPUB; USPAT	OR	ON	2015/05/20 08:32

		US-20030153438-$).did. or (US-7883450-$ or US-7137771-$ or US-4243147-$ or US-8978905-$ or US-8789682-$ or US-8584274-$ or US-8397320-$ or US-7462138-$ or US-6520484-$ or US-5809591-$ or US-5337908-$ or US-4639955-$ or US-4627119-$ or US-7993248-$ or US-7618223-$ or US-6464208-$ or US-6080087-$ or US-5138953-$ or US-4944056-$ or US-4606082-$ or US-4372452-$ or US-4360307-$ or US-3780663-$ or US-2819755-$ or US-1971294-$ or US-1536766-$).did. or (US-7240621-$ or US-6890288-$ or US-5850928-$ or US-3985082-$).did.				
L11	2	(active and passive) and L10	US-PGPUB; USPAT; EPO; JPO	OR	ON	2015/05/20 08:32
L12	13	light and L10	US-PGPUB; USPAT; EPO; JPO	OR	ON	2015/05/20 09:01
L13	43	(US-20080287268-$ or US-20070004567-$ or US-20140206503-$ or US-20120198612-$ or US-20120000876-$ or US-20110000015-$ or US-20100312152-$ or US-20050115914-$ or US-20100000546-$ or US-20090308828-$ or US-20030201374-$ or US-20060240952-$ or US-20030084508-$ or US-20030200607-$ or US-20010027149-$ or US-20030153438-$).did. or (US-8978905-$ or US-8789682-$ or US-8584274-$ or US-8397320-$ or US-7462138-$ or US-6520484-$ or US-5809591-$ or US-5337908-$ or US-4639955-$ or US-4627119-$ or US-7993248-$ or US-7618223-$ or US-6464208-$ or US-6080087-$ or US-5138953-$ or US-4944056-$ or US-4606082-$ or US-4372452-$ or US-4360307-$ or US-3780663-$ or US-2819755-$ or US-1971294-$ or US-1536766-$ or US-7240621-$ or US-6890288-$ or US-5850928-$).did. or (US-3985082-$).did.	US-PGPUB; USPAT	OR	ON	2015/05/20 09:52
S1	9266	(A61G7/1042 or A63B21/0058 or A63B24/0087 or A63B21/068 or A61H3/008 or A63B21/00181 or A63B69/0064 or A61G7/1001 or A61G7/1049 or A63B2220/30 or A61H2201/5092 or A61H2201/5079 or A61H2201/50 or A63B2225/107 or A63B2220/52 or A63B2071/0683 or A61H2201/5084 or A63B2225/50 or A61H2201/5064 or A63B2225/20 or A63B2220/802 or A61H2201/501 or A63B2024/0093 or A63B2071/0081 or A63B2220/806 or A63B2220/40 or A61H2201/5097 or A63B2220/10 or	US-PGPUB; USPAT; EPO; JPO	OR	ON	2015/05/19 14:13

		A63B2071/0063 or A61H2201/5061 or A63B2022/0094).cpc.				
S2	1379	(A61G7/1017, A61G7/1011, A61G7/1042, A61H3/008, A61G7/1001, A61G7/1049).cpc.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2015/05/19 14:23
S3	1688	(A61G7/1017, A61G7/1015, A61G7/1011, A61G7/1042, A61H3/008, A61G7/1001, A61G7/1049).cpc.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2015/05/19 14:25
S4	3	("4243147" | "7137771" | "7883450").PN.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2015/05/19 14:26
S5	89	("0687633" | "2272788" | "3937151" | "4003479" | "4125908").PN. OR ("4243147").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2015/05/19 14:26
S6	226	gait and S3	US-PGPUB; USPAT; USOCR	OR	ON	2015/05/19 14:31
S7	0	(("2008287268") or ("2005232733")).PN.	US-PGPUB; USPAT; EPO	OR	OFF	2015/05/19 16:01
S8	2	(("7883450") or ("7137771")).PN.	US-PGPUB; USPAT; EPO	OR	OFF	2015/05/19 16:02
S9	1	("20070004567").PN.	US-PGPUB; USPAT; EPO	OR	OFF	2015/05/19 16:03
S10	677	gait and S1	US-PGPUB; USPAT; USOCR	OR	ON	2015/05/19 16:28
S11	17879314	not S5	US-PGPUB; USPAT; USOCR	OR	ON	2015/05/19 16:28

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EAST Search History (Prior Art)

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S2	1379	(A61G7/1017, A61G7/1011, A61G7/1042, A61H3/008, A61G7/1001, A61G7/1049).cpc.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2015/05/19 14:23
S3	1688	(A61G7/1017, A61G7/1015, A61G7/1011, A61G7/1042, A61H3/008, A61G7/1001, A61G7/1049).cpc.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2015/05/19 14:25
S4	3	("4243147" | "7137771" | "7883450").PN.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2015/05/19 14:26
S5	89	("0687633" | "2272788" | "3937151" | "4003479" | "4125908").PN. OR ("4243147").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2015/05/19 14:26
S6	226	gait and S3	US-PGPUB; USPAT; USOCR	OR	ON	2015/05/19 14:31
S7	0	(("2008287268") or ("2005232733")).PN.	US-PGPUB; USPAT; EPO	OR	OFF	2015/05/19 16:01
S8	2	(("7883450") or ("7137771")).PN.	US-PGPUB; USPAT; EPO	OR	OFF	2015/05/19 16:02
S9	1	("20070004567").PN.	US-PGPUB; USPAT;	OR	OFF	2015/05/19 16:03

			EPO			
S10	677	gait and S1	US-PGPUB; USPAT; USOCR	OR	ON	2015/05/19 16:28
S11	17879314	not S5	US-PGPUB; USPAT; USOCR	OR	ON	2015/05/19 16:28
S12	9266	(A61G7/1042 or A63B21/0058 or A63B24/0087 or A63B21/068 or A61H3/008 or A63B21/00181 or A63B69/0064 or A61G7/1001 or A61G7/1049 or A63B2220/30 or A61H2201/5092 or A61H2201/5079 or A61H2201/50 or A63B2225/107 or A63B2220/52 or A63B2071/0683 or A61H2201/5084 or A63B2225/50 or A61H2201/5064 or A63B2225/20 or A63B2220/802 or A61H2201/501 or A63B2024/0093 or A63B2071/0081 or A63B2220/806 or A63B2220/40 or A61H2201/5097 or A63B2220/10 or A63B2071/0063 or A61H2201/5061 or A63B2022/0094).cpc.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2015/05/20 08:06
S13	1688	(A61G7/1017, A61G7/1015, A61G7/1011, A61G7/1042, A61H3/008, A61G7/1001, A61G7/1049).cpc.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2015/05/20 08:06
S14	226	gait and S13	US-PGPUB; USPAT; USOCR	OR	ON	2015/05/20 08:06
S15	677	gait and S12	US-PGPUB; USPAT; USOCR	OR	ON	2015/05/20 08:06
S16	457	S15 not S14	US-PGPUB; USPAT; USOCR	OR	ON	2015/05/20 08:06
S17	25	("20050239613" | "3985082" | "4252063" | "6315138" | "6645126" | "4911426" | "6436009" | "5337908" | "6464208" | "4445502" | "6666831" | "3780663" | "5850928" | "20070004567" | "4243147" | "6244991" | "4973044" | "6080087" | "20050105772" | "5190507" | "6890288" | "7240621" | "7462138" | "5704881").PN.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2015/05/20 08:31
S18	46	(US-20080287268-$ or US-20070004567-$ or US-20140206503-$ or US-20120198612-$ or US-20120000876-$ or US-20110000015-$ or US-20100312152-$ or US-20050115914-$ or US-20100000546-$ or US-20090308828-$ or US-20030201374-$ or US-20060240952-$ or US-20030084508-$ or US-20030200607-$ or US-20010027149-$ or US-20030153438-$).did. or (US-	US-PGPUB; USPAT	OR	ON	2015/05/20 08:32

		7883450-$ or US-7137771-$ or US-4243147-$ or US-8978905-$ or US-8789682-$ or US-8584274-$ or US-8397320-$ or US-7462138-$ or US-6520484-$ or US-5809591-$ or US-5337908-$ or US-4639955-$ or US-4627119-$ or US-7993248-$ or US-7618223-$ or US-6464208-$ or US-6080087-$ or US-5138953-$ or US-4944056-$ or US-4606082-$ or US-4372452-$ or US-4360307-$ or US-3780663-$ or US-2819755-$ or US-1971294-$ or US-1536766-$).did. or (US-7240621-$ or US-6890288-$ or US-5850928-$ or US-3985082-$).did.				
S19	2	(active and passive) and S18	US-PGPUB; USPAT; EPO; JPO	OR	ON	2015/05/20 08:32
S20	13	light and S18	US-PGPUB; USPAT; EPO; JPO	OR	ON	2015/05/20 09:01
S21	43	(US-20080287268-$ or US-20070004567-$ or US-20140206503-$ or US-20120198612-$ or US-20120000876-$ or US-20110000015-$ or US-20100312152-$ or US-20050115914-$ or US-20100000546-$ or US-20090308828-$ or US-20030201374-$ or US-20060240952-$ or US-20030084508-$ or US-20030200607-$ or US-20010027149-$ or US-20030153438-$).did. or (US-8978905-$ or US-8789682-$ or US-8584274-$ or US-8397320-$ or US-7462138-$ or US-6520484-$ or US-5809591-$ or US-5337908-$ or US-4639955-$ or US-4627119-$ or US-7993248-$ or US-7618223-$ or US-6464208-$ or US-6080087-$ or US-5138953-$ or US-4944056-$ or US-4606082-$ or US-4372452-$ or US-4360307-$ or US-3780663-$ or US-2819755-$ or US-1971294-$ or US-1536766-$ or US-7240621-$ or US-6890288-$ or US-5850928-$).did. or (US-3985082-$).did.	US-PGPUB; USPAT	OR	ON	2015/05/20 09:52
S22	282	(a61G7/1042).CPC.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2015/12/03 14:04
S23	3	"7137771"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2015/12/03 16:50

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