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Records: 7 (1-7 of 7)

Export type: Family Export

1. Family 31777272 (US2007272010 AA)

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Title
[EN] ASSESSMENT APPARATUS AND METHOD

Abstract
[EN] A method and apparatus are described for assessing function of the cranio-cervical muscles. The method includes assessment of torque produced during flexion/extension, axial rotation, lateral rotation or combination thereof. The apparatus (110) has a lever arm (130) mounted to a support frame (120), wherein the length of the arm and its angle of extension may be varied. Torque is assessed at an anatomical axis of rotation in a subject. The apparatus axis of rotation may be adjustable. A preferred embodiment has a pivoted support frame for positioning over a subject's head, wherein the support frame (120) may form a lever arm for rotation. The apparatus may be removably mountable to an upright such as a door jamb.

International Class: A61B5/22; A63B23/00; A63B23/025; A61B5/11; A63B21/00

Cooperative Patent Class: A61B5/224; A61B5/4519; A61B5/4528; A61B5/6814; A63B23/025

US Class: 73/379.01; 73/379.010P

Family Information

	Patent Number	Publication Date	Application Number	Application Date
	US2007272010 AA	20071129	US20040572454	20040920
	WO05028034 A1	20050331	WO2004AU01279	20040920

Priority Numbers: AU20030905108 [20030919]; WO2004AU01279 [20040920]

Probable Patent Assignee: QUEENSLAND UNIV OF

Assignees: UNIV QUEENSLAND; JULL GWENDOLEN ANNE; VICENZINO GUGLIELMO TARCISIO; GREAVES MATTHEW CAMPBELL; O LEARY SHAUN PATRICK

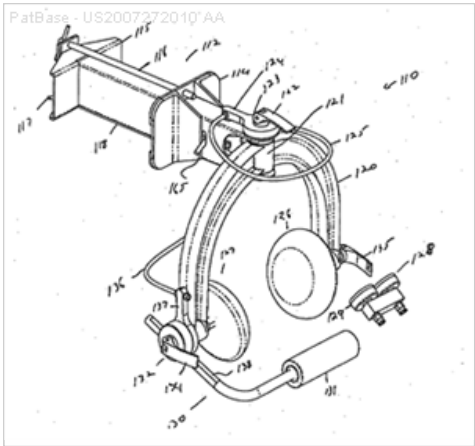
Non Std Assignees: QUEENSLAND UNIV OF; OF QUEENSLAND UNIV; QUEENSLAND UNIV; THE UNIVERSITY OF QUEENSLAND

Inventors: O LEARY SHAUN P; JULL GWENDDEN A; GREAVES MATTHEW C; VICENZINO GUGLISIMO T; GREAVES MATTHEW CAMPBELL; JULL GWENDOLEN ANNE; VICENZINO GUGLIELMO TARCISIO; O LEARY SHAUN PATRICK

Non Std Inventors: JULL GWENDDEN ANNE; O"LEARY SHAUN PATRICK; VICENZINO GUGLISIMO TARCISIO; VICENZINO GUGLISIMO; JULL GWENDDEN; GREAVES MATTHEW; O LEARY SHAUN

Agent(s): DENNISON SCHULTZ AND MACDONALD

Designated States: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BE; BF; BG; BJ; BR; BW; BY; BZ; CA; CF; CG; CH; CI; CM; CN; CO; CR; CU; CY; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; FR; GA; GB; GD; GE; GH; GM; GN; GQ; GR; GW; HR; HU; ID; IE; IL; IN; IS; IT; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MC; MD; MG; MK; ML; MN; MR; MW; MX; MZ; NA; NE; NI; NL; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SI; SK; SL; SN; SY; SZ; TD; TG; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW

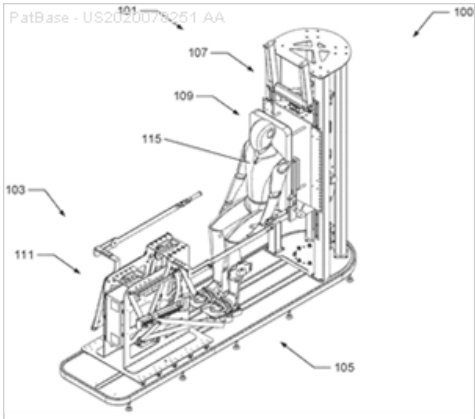


2. Family 77928688 (US2020078251 AA)

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Title
[EN] REHABILITATION DEVICE PROVIDING LOCOMOTION TRAINING AND METHOD OF USE

Abstract
[EN] In various embodiments, provided herein are systems, methods, processes, and devices for providing locomotive rehabilitation to a subject via one or more gait motions that substantially accurately mimic motions performed in healthy, natural gait cycles. The system may mimic natural gait motions via footplates and handles, and one or more linkage systems. In particular embodiments, the system may further include a motor unit and/or clutch for providing controlled forces assisting or resisting motions of a linkage system. Further, the system may include a tower for operating in a standing or seated position. In at least one embodiment, the system includes a body weight support system that provides offloading forces to a subject.



International Class: A61H1/02; A63B22/04; A63B22/06; A63B23/035; A61H1/00; A61H3/00; A63B21/00; A63B71/00; A63B21/005; A63B21/22; A63B22/00

Cooperative Patent Class: A61H1/0229; A61H1/0237; A61H1/0262; A61H1/0274; A61H2001/0211; A61H2201/0176; A61H2201/0192; A61H2201/1215; A61H2201/1269; A61H2201/14; A61H2201/1445; A61H2201/149; A61H2201/1623; A61H2201/1633; A61H2201/1635; A61H2201/1642; A61H2201/1652; A61H2201/1664; A61H2201/1676; A61H2201/50; A61H2201/5007; A61H2201/5035; A61H2201/5038; A61H2201/5043; A61H2201/5058; A61H2201/5061; A61H2201/5064; A61H2203/0406; A61H2203/0431; A61H2205/06; A61H2205/10; A61H2205/12; A61H2230/805; A61H3/008; A63B2022/0676; A63B2022/0682; A63B2071/0081; A63B21/00178; A63B21/00181; A63B21/0058; A63B21/157; A63B21/225; A63B22/001; A63B22/0017; A63B22/0664; A63B2208/0204; A63B2208/0233; A63B2220/10; A63B2220/51; A63B2220/80; A63B2220/801; A63B2220/808; A63B2225/09; A63B2225/093; A63B2225/20; A63B2225/50; A63B71/0622

Family Information

	Patent Number	Publication Date	Application Number	Application Date
	CA3112168 AA	20210308	CA20193112168	20190909
	CN112996573 A	20210618	CN201980073639	20190909
	EP3846914 A1	20210714	EP20190857277	20190909
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	US11432985 BB	20220906	US20200902836	20200616
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	US2022362092 AA	20221117	US20220875038	20220727
	WO20051592 A1	20200312	WO2019US50239	20190909

Priority Numbers: US20180728762P [20180908]; WO2019US50239 [20190909]; US20190565131 [20190909]; US20200902836 [20200616]; US20220875038 [20220727]

Probable Patent Assignee: HEALING INNOVATIONS INC

Assignees: HEALING INNOVATIONS INC

Non Std Assignees: BENDA SCOTT DOUGLAS; BENDA LUKE SCOTT; DAVIDSON BRADEN JOSEPH; REESE EVAN ANDREW; ZARO CHRISTOPHER

Inventors: BENDA SCOTT DOUGLAS; BENDA LUKE SCOTT; DAVIDSON BRADEN JOSEPH; REESE EVAN ANDREW; ZARO CHRISTOPHER

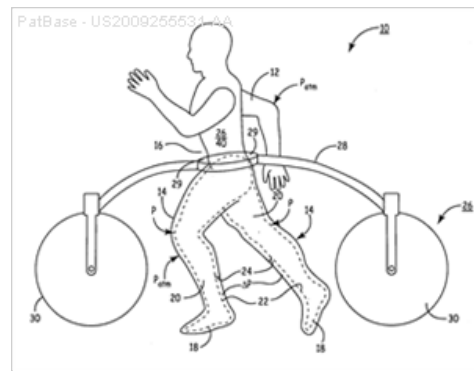
Agent(s): ROBIC; LLOYD PATRICK ALEXANDER DESMOND; REDDIE AND GROSE LLP; MORRIS MANNING AND MARTIN LLP; MORRIS MANNING AND MARTIN LLP; STEWART BRYAN D; SINEWAY ESQ DANIEL E

Designated States: AL; AT; BA; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HR; HU; IE; IS; IT; LI; LT; LU; LV; MC; ME; MK; MT; NL; NO; PL; PT; RO; RS; SE; SI; SK; SM; TR; AE; AG; AM; AO; AU; AZ; BB; BF; BH; BJ; BN; BR; BW; BY; BZ; CA; CF; CG; CI; CL; CM; CN; CO; CR; CU; DJ; DM; DO; DZ; EC; EG; GA; GD; GE; GH; GM; GN; GQ; GT; GW; HN; ID; IL; IN; IR; JO; JP; KE; KG; KH; KM; KN; KP; KR; KW; KZ; LA; LC; LK; LR; LS; LY; MA; MD; MG; ML; MN; MR; MW; MX; MY; MZ; NA; NE; NG; NI; NZ; OM; PA; PE; PG; PH; QA; RU; RW; SA; SC; SD; SG; SL; SN; ST; SV; SY; SZ; TD; TG; TH; TJ; TM; TN; TT; TZ; UA; UG; US; UZ; VC; VN; ZA; ZM; ZW

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[EN] PORTABLE SYSTEM FOR ASSISTING BODY MOVEMENT

[EN] The present invention provides a differential pressure body suit with external support against body suit migration. In its preferred embodiment, such body suit may comprise a close-fitting, multi-layered suit sealed against a mammal's skin to contain the differential pressure, or a looser-fitting suit that bends at the mammal's joints with minimal force. External support means include either fixed or movable mechanical supports attached to the body suit, extraordinary air pressure levels for making the body suit rigid, or exoskeletons attached to the body suit. A cyclic control system can turn the differential pressure condition within the body suit on and off on a selective basis to accommodate the movement of the legs of the mammal. This differential pressure body suit provides a portable and convenient system for, e.g., rehabilitating a skeletal joint injury or training the mammal for injury prevention or athletic performance. The pressurization reduces the weight of the body to greater or lesser extents, and offloads the weight to the ground through the external support means.



Cooperative Patent Class: A61H1/024; A61H1/0266; A61H2201/1616; A61H2201/1621; A61H2201/163; A61H2201/1642; A61H2201/165; A61H2201/5071; A61H2203/03; A61H2205/08; A61H2205/10; A61H2209/00; A61H3/00; A61H3/008; A61H3/04; A61H9/0078; A63B2022/0094; A63B21/00181; A63B22/02; A63B22/20; A63B2208/05; A63B2208/14; A63B69/0064; A63B69/16; A63B71/0009; A61D3/00; A61F5/24; A61H9/0057; A63B21/0088; A61B5/112; A61F5/0102; A63B2071/0018; A63B21/00069; A63B21/0552; A63B21/068; A63B21/154; A63B21/4009; A63B21/4011; A63B21/4025; A63B21/4035; A63B2208/053; A63B2209/10; A63B2225/09; A63B2225/62; A63B23/0405; A63B23/047; A63B23/0482; A63B69/0028; A63B71/0054; A41D13/0007; A41D13/0025; A61H2003/007; A61H2201/0103; A61H2201/1647; A63B21/153; A63B22/0056; A63B22/0235; A63B2208/056; A63B2220/56; B32B2307/51; B32B2307/724; B32B2307/7242; B32B2437/00; B32B2535/00; B32B5/04; B32B5/26; A61G5/14; A61H2003/043; A61H2003/046; A61H2201/0192; A61H2201/0214; A61H2201/0242; A61H2201/1207; A61H2201/1253; A61H2201/1628; A61H2201/164; A61H2201/1652; A61H2201/50; A61H2201/5082

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	Patent Number	Publication Date	Application Number	Application Date
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	Patent Number	Publication Date	Application Number	Application Date
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	WO14144158 A3	20150326	WO2014US28448	20140314
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Priority Numbers: US20130839204 [20130315]; WO2014US28448 [20140314]; US20080131919 [20080613]; US20090319463 [20090107]; EP20090762926 [20090612]; WO2009US03535 [20090612]; EP20140762800 [20140314]; US20080131919P [20080613]; US20080010034P [20080107]; US20090456196 [20090612]; US20130748322 [20130123]; US20120573692 [20121003]; US20110626749P [20111003]; US20140155733 [20140115]; US20150884353 [20151015]

Probable Patent Assignee: LITE RUN INC

Assignees: LITE RUN INC; LITE RUN LLC; OSLAND ODD; HAUCK JOHN A; JOHNSON DOUGLAS E; JOHNSON MARK T

Inventors: OSLAND ODD; JOHNSON DOUGLAS E; JOHNSON MARK T; HAUCK JOHN A; BOBGAN PETER M

Non Std Inventors: JOHNSON DOUGLAS; HAUCK JOHN; JOHNSON MARK

Agent(s): MUELLER BORE AND PARTNER PATENTANWAELTE PARTG MBB; HALLYBONE HUW GEORGE; JACKSON RICHARD ERIC; CARPMAELS AND RANSFORD LLP; CARPMAELS AND RANSFORD LLP; GLEN E SCHUMANN C O MOSS AND BARNETT; MOSS AND BARNETT; DEWITT ROSS AND STEVENS SC; BIEK DAVID L

Designated States: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HR; HU; IE; IS; IT; LI; LT; LU; LV; MC; MK; MT; NL; NO; PL; PT; RO; SE; SI; SK; TR; AL; RS; SM; BA; ME; AE; AG; AM; AO; AU; AZ; BB; BF; BH; BJ; BR; BW; BY; BZ; CA; CF; CG; CI; CL; CM; CN; CO; CR; CU; DM; DO; DZ; EC; EG; GA; GD; GE; GH; GM; GN; GQ; GT; GW; HN; ID; IL; IN; JP; KE; KG; KM; KN; KP; KR; KZ; LA; LC; LK; LR; LS; LY; MA; MD; MG; ML; MN; MR; MW; MX; MY; MZ; NA; NE; NG; NI; NZ; OM; PE; PG; PH; RU; SC; SD; SG; SL; SN; ST; SV; SY; SZ; TD; TG; TJ; TM; TN; TT; TZ; UA; UG; US; UZ; VC; VN; ZA; ZM; ZW; BN; IR; PA; QA; RW; SA; TH; DJ; KW

4. Family 55411323 (ES2435803 AA)

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Title

[EN] THERAPEUTIC MACHINERY (MACHINE-TRANSLATION BY GOOGLE TRANSLATE, NOT LEGALLY BINDING)

Abstract

[EN] Therapeutic equipment object that uses a common generator module, equipped with an electromagnetic brake, an optional motor and several sensors, mechanically connected by means of transmission chains, to means of movement of the user, being regulated from an electronic control module equipped of touch screen with a common structure of removable support in the shape of h, and with a seat provided with means of regulation in height and the means of regulation in depth of the seat related continuously allowing in this way the simultaneous regulation of both parameters. Its advantages include a perfect adaptation and control of the therapeutic activity, a more rapid and accurate adaptation to the needs and anthropomorphic particularities of each user and a more economical manufacturing, significantly reducing the economic cost of this machinery. (Machine-translation by Google Translate, not legally binding)

International Class: A63B21/005; A63B23/035

Cooperative Patent Class: A63B21/0056; A63B23/0355

Family Information

	Patent Number	Publication Date	Application Number	Application Date
	ES2435803 AA	20131223	ES20130031460	20131003
	ES2435803 BA	20140729	ES20130031460	20131003

Priority Numbers: ES20130031460 [20131003]

Probable Patent Assignee: INTERVAP EUROPA S L U

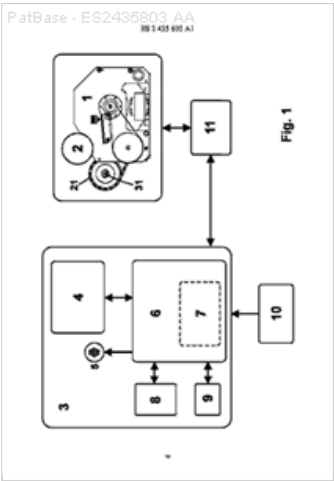
Assignees: INTERVAP EUROPA S L U

Non Std Assignees: INTERVAP EUROPA SLU

Inventors: GOMEZ DOMINGUEZ JOSE IGNACIO

Non Std Inventors: JOSE IGNACIO GOMEZ DOMINGUEZ

Agent(s): AZAGRA MARIA PILAR



5. Family 73092278 (US2019183715 AA)

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Title
[EN] APPARATUS AND SYSTEM FOR LIMB REHABILITATION

Abstract
[EN] A robotic limb rehabilitation apparatus and system for a lower limb in a human being is disclosed. The apparatus comprises of a mobile-frame, dynamic weight unloading mechanism and lower extremity exoskeleton device. The mobile-frame structure is constructed using first and second vertical structural support members connected by a horizontal cross bar/beam to which a boom arm assembly is attached. During the rehabilitation exercises the user is secured with a harness and lower extremity exoskeleton device for safe movements. An intelligent algorithm, embedded onto a dedicated processor, actuates various motors to execute the prescribed exercises, while the sensors provide dynamic feedback for corrective measures to control the exercise routine.

International Class: A61H3/00; A61H1/02; A61H3/04; G16H20/30; G16H50/20; A63B21/00; A63B23/04; A63B69/00

Cooperative Patent Class: A61H1/024; A61H1/0244; A61H1/0262; A61H1/0266; A61H2003/007; A61H2003/043; A61H2201/1215; A61H2201/123; A61H2201/149; A61H2201/163; A61H2201/1642; A61H2201/1652; A61H2201/1659; A61H2201/1676; A61H2201/5007; A61H2201/5012; A61H2201/5035; A61H2201/5053; A61H2201/5058; A61H2201/5064; A61H2201/5069; A61H2203/0406; A61H2230/605; A61H3/008; A61H3/04; A63B21/00178; A63B23/04; A63B23/0405; A63B69/0064; G16H20/30; G16H50/20

US Class: 1/1

Family Information

	Patent Number	Publication Date	Application Number	Application Date
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	IN326869 B	20191213	IN201741045051	20171214
	US10492977 BB	20191203	US20180204836	20181129
	US2019183715 AA	20190620	US20180204836	20181129
	US2020170876 AA	20200604	US20190668183	20191030
	WO19116093 A1	20190620	WO20181B01516	20181129

Priority Numbers: IN201741045051 [20171214]; US20180204836 [20181129]; US20190668183 [20191030]

Probable Patent Assignee: BIONIC YANTRA PRIVATE LTD

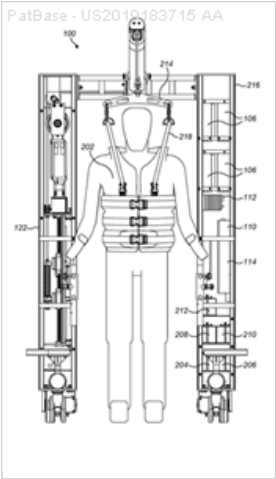
Assignees: BIONIC YANTRA PRIVATE LTD

Non Std Assignees: BIONIC YANTRA PVT LTD

Inventors: MUDGAL GIRISH; KAPURE KAUSTUBH; SHAH UTSAV; GOYAL KUSH; DAHIYA SUMIT; GOYAL KUSH KUMAR

Agent(s): KADAMBI GREETA; RIDDHI IP LLC; RIDDHI IP LLC

Designated States: AE; AG; AL; AM; AO; AT; AU; AZ; BA; BB; BE; BF; BG; BH; BJ; BN; BR; BW; BY; BZ; CA; CF; CG; CH; CI; CL; CM; CN; CO; CR; CU; CY; CZ; DE; DJ; DK; DM; DO; DZ; EC; EE; EG; ES; FI; FR; GA; GB; GD; GE; GH; GM; GN; GQ; GR; GT; GW; HN; HR; HU; ID; IE; IL; IN; IR; IS; IT; JO; JP; KE; KG; KH; KM; KN; KP; KR; KW; KZ; LA; LC; LK; LR; LS; LT; LU; LV; LY; MA; MC; MD; ME; MG; MK; ML; MN; MR; MT; MW; MX; MY; MZ; NA; NE; NG; NI; NL; NO; NZ; OM; PA; PE; PG; PH; PL; PT; QA; RO; RS; RU; RW; SA; SC; SD; SE; SG; SI; SK; SL; SM; SN; ST; SV; SY; SZ; TD; TG; TH; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; ZA; ZM; ZW



6. Family 73267055 (US2019054342 AA)

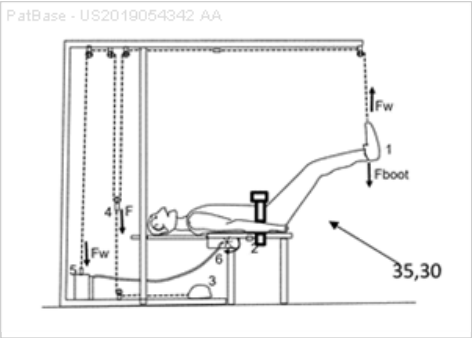
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Title

[EN] THE VARRI, A VERTICAL RUNNING MACHINE, VERTICAL, ANTI-GRAVITY, REHABILITATION, RECOVERY, IMPACT RESISTANT

Abstract

[EN] A Vertical Running Machine called a VARRI-Vertical, Anti-Gravity, Re-habilitation, Recovery, and Impact Resistant. It relates to the field of bio-mechanical technology, human physiological facts, and the relationship of gravity and the functionality of the body in motion. This is a Vertical, Anti-gravity device created for Recovery from injuries, physical therapy Rehabilitation with the functional characteristics of Impact-free conditioning and by providing a non-impact system to improve the conditioning or recovery of the user, the patient or the elderly. The device provides a method of a more rapid and safer recovery from injuries and surgery and also is capable to provide enhanced athletic performance by using a vertical, non-impact system which alleviates the damages on the muscles and skeletal structure of the body from the continuous impact of horizontal running on the ground.



International Class: A61H1/02; A63B21/00; A63B21/062; A63B22/00; A63B24/00; A63B69/00; A63B71/06

Cooperative Patent Class: A61H1/0229; A61H1/0244; A61H1/0262; A61H2201/0149; A61H2201/0173; A61H2201/0192; A61H2201/1207; A61H2201/1261; A61H2201/14; A61H2201/1409; A61H2201/1642; A61H2201/1652; A61H2201/1657; A61H2201/5007; A61H2201/5023; A61H2203/04; A61H2203/0431; A61H2203/0456; A63B2022/0094; A63B21/00181; A63B21/063; A63B21/154; A63B21/158; A63B21/4009; A63B21/4015; A63B21/4029; A63B21/4034; A63B22/0025; A63B22/0046; A63B2208/0233; A63B2208/0252; A63B2208/12; A63B2225/09; A63B24/0087; A63B69/0028; A63B71/0619

US Class: 1/1; 601/5

Family Information

	Patent Number	Publication Date	Application Number	Application Date
	US11607580 BB	20230321	US20180104882	20180818
	US2019054342 AA	20190221	US20180104882	20180818

Priority Numbers: US20170547285P [20170818]; US20180104882 [20180818]

Probable Patent Assignee: CHRISTY JACK D

Assignees: CHRISTY JACK D

Inventors: CHRISTY JACK D

Agent(s): RITCHISON JOHN D; RITCHISON LAW OFFICES PC; RITCHISON LAW OFFICES PC

7. Family 71242941 (US2018264306 AA)

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Title

[EN] HUMAN MUSCULOSKELETAL SUPPORT AND TRAINING SYSTEM METHODS AND DEVICES

Abstract

[EN] A Trunk Support Trainer (TruST) is a dynamic device that trains subjects to improve strength and coordination of the upper body, while seated, and facilitates the trunk to safely move beyond the region of stability. In embodiments, the device creates an ‘assist-as-needed’ force field to support postures beyond stable sitting positions.

International Class: A61F5/02; A61H1/00; A63B21/00; A63B21/005; A63B24/00; A63B26/00; G06F3/01

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Probable Patent Assignee: UNIV COLUMBIA

Assignees: UNIV COLUMBIA

Non Std Assignees: TRUSTEES OF COLUMBIA UNIV IN CITY OF NEW YORK

Inventors: AGRAWAL SUNIL K; KHAN MOIZ

Agent(s): CATAN MARK A; POTOMAC LAW GROUP PLLC; POTOMAC LAW GROUP PLLC

