

Search history

Search PA=(MARIA MERCEDES CADENA GONZALEZ) (Results 1)

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Search physiotherapy (Results 13751)

3:

Search device or apparatus or system or machine (Results 1000000)

4:

Search 3 and 4 (Results 7732)

5:

Search unconscious (Results 12596)

6:

Search 5 and 6 (Results 53)

7:

Search IC=(A61H) (Results 199591)

8:

Search 3 and 8 (Results 4370)

9:

Search support (Results 1000000)

10:

Search 9 and 10 (Results 997)

11:

Search arm (Results 1000000)

12:

Search 11 and 12 (Results 313)

13:

Search movable or transportable (Results 1000000)

14:

Search 13 and 14 (Results 141)

15:

Search articulat* (Results 661640)

16:

Search 15 and 16 (Results 43)

17:

1) Family number: 22453420 (US2492406A)

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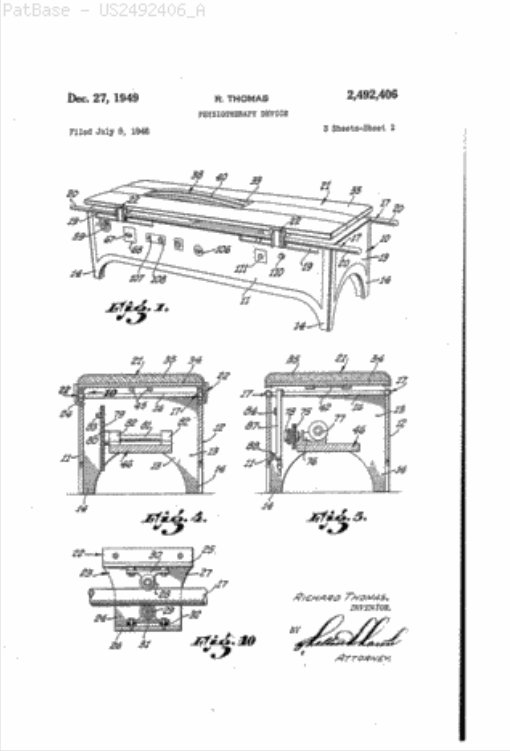
Title: PHYSIOTHERAPY DEVICE

Abstract: I claim as my invention: 1, In a, therapy device of the character described, the combination of: supporting means; a patient receiving platform carried by said supporting means, said platform having a portion which is translatable in vertical direction; pressure means for applying upward pressure waves to a limited portion of said translatable portion of said platform; means for locally applying heat to the patient on said platform in such manner as to heat body portions positioned adjacent said translatable portion of the platform; and means for relatively moving said platform and said pressure means whereby different portions of said translatable portion will be moved vertically by said pressure means to successively heat the body portions. 2. In a therapy device of the character described, the combination of: supporting means; a patient receiving platform carried by said supporting means, said platform having a portion which is translatable in vertical direction; pressure means for applying upward pressure impulses of relatively low frequency to a limited portion of said translatable portion of said platform; means for applying impulses of relatively high frequency to said platform; means for varying the intensity of said relatively low frequency impulses; means for varying the intensity of said relatively high frequency impulses; and means for relatively moving said platform and said pressure means whereby different portions of said translatable portion will be moved by said pressure means. 3. In a therapy device of the character described, the combination of: supporting means; a patient receiving platform carried by said supporting means, said platform having a portion which is translatable in vertical direction; pressure means for applying upward pressure impulses of relatively low frequency to a limited portion of said translatable portion of said platform; means for applying impulses of relatively high frequency to said platform; means for varying the intensity of said relatively low frequency impulses; means for varying the intensity of said relatively high frequency impulses; and means for relatively moving said platform and said pressure means whereby different portions of said translatable portion will be moved by said pressure means. 4. In a therapy device of the character described, the combination of: supporting means; a patient receiving platform carried by said supporting means, said platform having a portion which is translatable in vertical direction; pressure means for applying upward pressure impulses of relatively low frequency to a limited portion of said translatable portion of said platform; means for applying impulses of relatively high frequency to said platform; means for varying the intensity of said relatively low frequency impulses; means for varying the intensity of said relatively high frequency impulses; and means for relatively moving said platform and said pressure means whereby different portions of said translatable portion will be moved by said pressure means. 5. In a therapy device of the character described, the combination of: supporting means; a patient receiving platform carried by said supporting means, said platform having a portion which is translatable in vertical

direction; pressure means for applying upward pressure im~ pulses of relatively low frequency to a. limited portion of said translatableportion of said platform; means acting through said pressure means for applying impulses of relatively high frequency to said platform; means for varying the intensity of said relatively low frequency impulses; and means for varying the intensity of said relatively high frequency impulses. 6. In a. therapy device ol' the 'character described, the combination of: supporting means ; et patient receiving platform carried by said supporting means. said platform having a portion which is translatable in vertical direction; pressure means for applying 'upward pressure waves ,of relatively low frequency to a limited portion of said translatable portion -of saidtplatform; and means acting through said pressure »means for applying impulses of relatively high frequency to said platform. 7.111 a therapy adevice nf fthe _gt;charac'ter described, the combination of: supporting means; a, patient receivingplatformfcarried by said supporting uneans, said platform having a, portion which is translatable in vertical direction; a. supporting member carried by'sa»id supporting means under said platform; means for resiliently urging .said supporting member upwardly toward said platform; a dobular member rotatably sup- 'ported onsaid supporting -member; and means for rotatingssald lobularfmember sc that the lobes 'thereof willengaige and lift'said translatable portion of said platform. 8, In a therapy device of the character described, -the 'combination of: supporting means; a patient -receivinglplatform carried by said supporting Tmeans, said platform having a. portion which is translatable in fa vertical -direction; a. supporting imember carried by said supporting means under saidqplatform; spring means for resiliently urging said supporting -member upwardly :toward fsasid plaétform; translating means 'on;s=1id supliolitingmember'operative to intermittently faply =u1:ward movement 'to said translatable portion of 'said -platform; =a.nd adjusting 'means for varyingthe stress inlsaid spring means whereby the upward pressure df said translating means against 'salid 'tra.nsl:itable'portion may be varied. 9L In 9. therapy fdevitze 'of 'the character described, 'the combination "off: supporting means; a. patient' re'ceiving platifnrmcarried by said supporting meains, S3id`D12fffDI`IY1 having a portion which is `tra.nsls,table tn a vertical direction; a supporting "member carried 'by said supporting means under 'salid platform; spring means for resiliently urging .said sssupporting member upwardly toward said platform; translating means on said supporting member operative to intermittently apply upward movement to said transla.table.pbrtion of seiid platform; adjusting means for varyingthe stress in séid spring means whereby the upward _pressure of said translating means ega;instsaid'tre;ns1atzxb1e portion may be varied; and means for 'vibrating said supporting member whereby vibration willbe transmitted through said translating means to said translatable portion. 10. 'In ssa therapy 'device -of the character descibed, fthe 'combination of: supporting means; a'pa.tient receiving platform carried by said supporting mearis; pressure applying means under said platform for intermittently applying upward pressure; andmeans for horizontally moving said platform relatively ssto said 'pressure applying means fcomprising a, lever hinged at one end, means for sv\ii1'Iging'sdid lever back and forth, a linkhaving 'one -end thereof 'connected to said platform, 'and 'means for 'connecting the other end of sdid link selectively to points along said lever. 11. 'In 'a therapy device 'DT the cha.1'a.cter described, the 'hornbination of: supporting means; a'patient receiving platform 'carried by said supporting means having an dpening therein; a flexible wafil structure disposed in said opening; means for resiliently applying tension to the underside of said wall structure; and mechanism -positioned below. said platform lintermittently detlecting in an upward direction va -portion of said wall Vstructureagainst the action of -said tensionRICHARD THOMAS. (References »on following page) ing #D'1B8,IS.

Classifications:

International (IPC 8-9): A61H1/00 A61H15/00 (Advanced/Invention);
A61H1/00 A61H15/00 (Core/Invention)
International (IPC 1-7): A61H23/02
CPC: A61H15/0078 A61H2201/0142
European: A61H15/00B K61H201/01F10A
US: 601/115 601/99



Family:

Publication number	Publication date	Application number	Application date
US2492406 A	19491227	US19460682412	19460709

Priority:

US19460682412 19460709

Probable Assignee:

RICHARD THOMAS

Assignee(s): (std):

RICHARD THOMAS

Inventor(s): (std):

RICHARD THOMAS

Inventor(s):

THOMAS RICHARD

2) Family number: 838788 (US3404679A)

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Title: Medical therapy table

Abstract: (Claim 1) 1. A therapy table comprising: a frame, body support- gp ing means on said frame including a back support section, a leg support opposite one end of said back support section, and a single pelvic support section between and laterally centered relative to said back and said leg support sections, said body supporting means being adapted gg to support a patient with his back and lumbar région, his lumbo-sacral and pelvic régions, and his legs resting on said back support section, pelvic support section, and leg support section, respectively, a head rest on the other end of said back

support section, selectively operable and re- «q versible means for driving said back and pelvic support sections in relative movement at a relatively slow constant speed and continuously in either direction along a direction line extending lengthwise of said back and pelvic support sections, and said driving means comprising a motor on said frame, means operatively connecting said motor to one of said back and pelvic support sections, and means for selectively starting, stopping, and reversing said driving means.

Classifications:

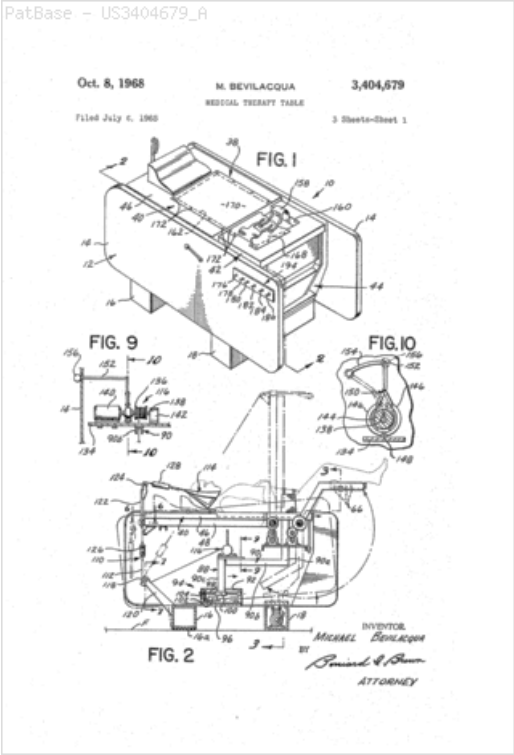
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A61H1/02 (Advanced/Invention)

International (IPC 1-7): A61G13/00

CPC: A61F5/04 A61G13/009 A61H1/02 A61H1/0222

European: A61F5/04 A61G13/00M A61H1/02 A61H1/02D1
K61H1/02D11

US: 128/71 606/242



Family:

Publication number	Publication date	Application number	Application date
US3404679 A	19681008	US19650469559	19650706

Priority:

US19650469559 19650706

Probable Assignee: MICHAEL BEVILACQUA

Assignee(s): MICHAEL BEVILACQUA

Inventor(s): (std): BEVILACQUA MICHAEL ; MICHAEL BEVILACQUA

3) Family number: 1235149 (FR2308387A)

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Title: PHYSIOTHERAPY EXERCISING EQUIPMENT - HAS SUPPORTING PLATE FOR PATIENT SLIDE, AS LONG AS HEAD AND BODY, AND ALSO SLIDE BRAKE

Abstract: The equipment is particularly for physiotherapy, and has a supporting frame on which a slide for the patient works in the horizontal direction, while at one end of the frame there are supports on opposite sides for his hands or feet. The patient supporting plate on the slide is of a length at least equal to the height of his head and body. The slide has a brake which can be applied in both directions of movement, and it can be moved to a position where the end of the plate is between the supports. The distance between the latter can be approximately the same as the width of the patient's shoulders, one end of the plate, where his head is accommodated, being narrower than the distance between the supports, but at least as wide as his head.

Classifications:

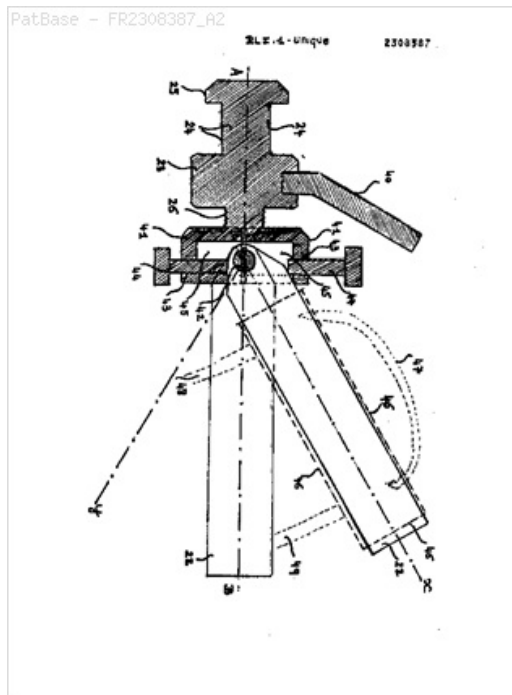
International (IPC 8-9): A63B21/008 A63B21/015
A63B23/00 (Advanced/Invention);

A63B21/008 A63B21/012 A63B23/00 (Core/Invention)

International (IPC 1-7): A61H A63B21/00 A63B21/10 A63B23/00

CPC: A63B21/015 A63B21/00069 A63B21/00072 A63B23/00
A63B2208/12 A63B21/0083 A63B2208/0252

European: A63B21/008B2 A63B21/015 A63B23/00 K63B208/02F2
K63B208/12

**Family:**

Publication number	Publication date	Application number	Application date
BE821407 A	19750217	BE19741006245	19741024
CH587063 A	19770429	CH19750005936	19750507
DE2518907 A1	19751127	DE19752518907	19750428
FR2269976 A1	19751205	FR19740016147	19740508
FR2308387 A2	19761119	FR19750012573	19750421
NL7505432 A	19751111	NL19750005432	19750507

Priority:

FR19740016147 19740508 FR19750012573 19750421

Probable Assignee: VINEL JEAN FRANCOIS

Assignee(s): (std): VINEL JEAN FRANCOIS

Assignee(s): VINEL JEAN FRANCOIS FR ; JEAN FRANCOIS VINEL TE VITTEL FRANKRIJK

Inventor(s): (std): VINEL JEAN FRANCOIS

4) Family number: 28668960 (US5192305A)

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Title: PROCESS AND APPARATUS FOR PHYSIOTHERAPY IN SCOLIOSIS AND DEVIATIONS OF THE RACHIS IN GENERAL

Abstract: For treating scoliosis and deviations of the human spinal cord in general, a patient is supended under gravity by straps and a corset in a frame. The patient is immobilized by transverse arms with end pads which engage the torso, and lateral shear forces are applied to the spinal column by a transversely extending power-operated pusher.

Classifications:

International (ipc 8-9): A61F5/00 A61F5/01 A61F5/04 A61F5/042

A61F5/40 A61H1/02 (Advanced/Invention);

A61H1/00 (Advanced/Non-invention);

A61F5/00 A61F5/01 A61F5/04 A61F5/40 A61H1/02 (Core/Invention);

A61H1/00 (Core/Non-invention)

International (ipc 1-7): A61F5/0 A61F5/01 A61F5/04 A61F5/042

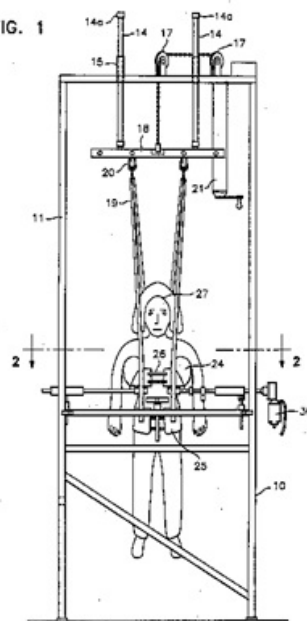
A61F5/40 A61H1/00 A61H1/02

CPC: A61H1/008 A61H1/0229

European: A61H1/02D12 K61H1/00P

US: 606/241

FIG. 1

**Family:**

Publication number	Publication date	Application number	Application date
DE69107361 D1	19950323	DE19916007361	19910614
DE69107361 T2	19951012	DE19916007361T	19910614
EP0467820 A1	19920122	EP19910510001	19910614
EP0467820 B1	19950215	EP19910510001	19910614
ES2025407 AF	19920316	ES19900001779	19900615
JP3240635 B2	20011217	JP19910224984	19910808
JP5042175 A2	19930223	JP19910224984	19910808
US5192305 A	19930309	US19910714185	19910614

Priority:

ES19900001779 19900615 JP19910224984 19910808

Probable Assignee: SASTRE FERNANDEZ SANTOS**Assignee(s):** (std): SASTRE FERNANDES SANTOS ; SASTRE FERNANDEZ SANTOS ; SASTRE SANTOS F ; SASUTORE FUERUNANDESU SANTOSU**Assignee(s):** SASTRE FERNANDES SANTOS BARCELONA ES**Inventor(s):** (std): SASTRE FERNANDEZ SANTOS ; SASTRE SANTOS F ; SASUTORE FUERUNANDESU SANTOSU ; SASTRE FERNANDES SANTOS**Inventor(s):** SASTRE FERNANDES SANTOS BARCELONA ES**Designated states:** DE FR GB IT**5) Family number: 17730402** (EP0543251A2)

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Title: EXERCISING DEVICE.

Abstract: An exercise device (10), especially for sling therapy, possesses a roof section (20), e.g. on a stand (12) having vertical standing pipes (14) carrying parallel longitudinal bars (22) at the top. Suspension devices (50; 59) can be displaced, offset and/or pivoted parallel thereto such that the suspension points (P) lie perpendicularly above the sling (S) in question. A pivoting gallows (40) is hinged on a hanging rod (24) and has a support rod (46) with a sliding sleeve (48). The support and sliding sleeves (30, 48, 80, 98, 104) can receive connecting parts lockable with a plug-in coupling (54), for example freely rotatable swivel rings (59). A fixator rod (60) with a displaceable and fixable fixation carrier (70) engages with a sleeve (66) over a longitudinal bar (22) and stands on a foot (62) whose height can be adjusted. A frame (70) holds deflecting rollers (85) on a standing pipe (14), as well as a vertical guide (H, 83) for an insertion gallows 84, a weight slide (86, 87) or the like with a roller carrier (80) which can be displaced upwards and downwards and can be fixed. A telescopic spring support (91) which can be coupled, for example, to a longitudinal bar (22) and has a self-inhibiting fixing device (95) possesses at least one ring loop (94) on the side and a flexible support part (99, 100) at the bottom.

Classifications:**International (IPC 8-9):** A61H1/02 A63B21/16 (Advanced/Invention);

A63B21/00 A63B21/062 (Advanced/Non-invention);

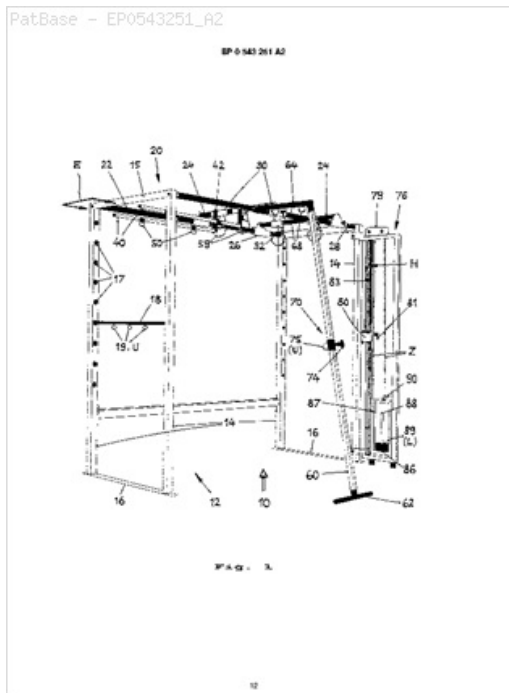
A61H1/02 A63B21/00 (Core/Invention);

A63B21/06 (Core/Non-invention)

International (IPC 1-7): A61H1/02 A63B21/06 A63B21/16**CPC:** A63B21/0628 A63B21/16 A61H1/0218 A61H1/0292

A61H2201/163 A63B21/154

European: A61H1/02N A63B21/15F6 A63B21/16

**Family:**

Publication number	Publication date	Application number	Application date
AT146069 E	19961215	AT19920119158T	19921109
DE59207671 D1	19970123	DE19925007671	19921109
DE9114376 U1	19920130	DE19910014376U	19911119
EP0543251 A2	19930526	EP19920119158	19921109
EP0543251 A3	19950201	EP19920119158	19921109
EP0543251 B1	19961211	EP19920119158	19921109

Priority:

DE19910014376U 19911119 DE19925007671 19921109

Probable Assignee: KRELL OLAF

Assignee(s): (std): KRELL OLAF

Assignee(s): KRELL OLAF 6750 KAISERSLAUTERN DE

Inventor(s): (std): HUBER BERND ; KRELL OLAF ; WENK WERNER

Inventor(s): WENK WERNER D 35039 MARBURG DE ; KRELL OLAF D 67655 KAISERSLAUTERN DE ; HUBER BERND D 54294 TRIER DE

Designated states: AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

6) Family number: 8669209 (DE4036164A1)

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Title: MOVEMENT RAIL FOR TREATMENT OF HIP JOINT AND LOWER EXTREMITIES - ACTS TO THIGH DIRECTLY OR VIA LOCATOR VIA DRIVE COMPONENT

Abstract: The appts. comprises a base structure (1), a thigh locator (2), foot supports (3), guide bars (4), and a cover (4) for the drive unit which acts on the thigh locator via a bolt (6) in a bent slot (7). A switch-on button (8) is provided for the movement rail, and rotary buttons (9,10) are available for the degree of bending of the leg (14), i.e. extension and flexion. A rotary button (11) regulates the speed of the rail up to achievement of the max. degree of bending and a button (12) serves for pre-adjustment of the changeover pause from stretching to bending of the leg and vice-versa. A patient operating control (13) is available for stop and start. USE - In physiotherapy, for treatment of the hip joint and the lower extremities.

Classifications:

International (IPC 8-9): A61H1/02 (Advanced/Invention);

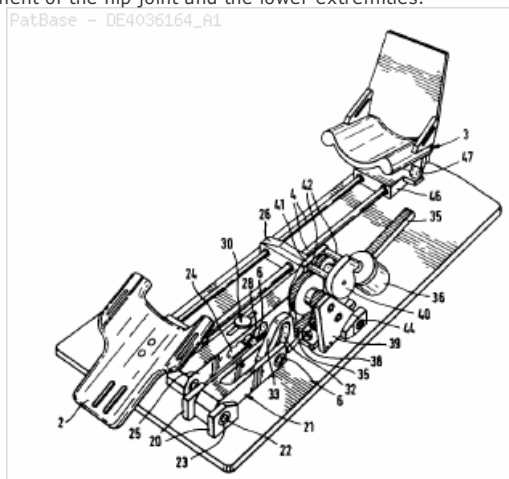
A61H1/02 (Core/Invention)

International (IPC 1-7): A61H1/02

CPC: A61H2201/1623 A61H2201/1633 A61H2201/1642 A61H1/0259

European: A61H1/02L4L

PatBase - DE4036164_A1

**Family:**

Publication number	Publication date	Application number	Application date
DE4036164 A1	19920521	DE19904036164	19901114

Priority:

DE19904036164 19901114

Probable Assignee:

RUF HERMANN

Assignee(s): (std):

RUF HERMANN

Assignee(s):

RUF HERMANN 6103 GRIESHEIM DE

Inventor(s): (std):

RUF HERMANN

Inventor(s):

RUF HERMANN 6103 GRIESHEIM DE

7) Family number: 9739883 (US5435272A)

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Title: Support harness for a young child

Abstract: PCT No. PCT/FR92/00785 Sec. 371 Date Mar. 31, 1994 Sec. 102(e) Date Mar. 31, 1994 PCT Filed Aug. 10, 1992 PCT Pub. No. WO93/02596 PCT Pub. Date Feb. 18, 1993. A harness comprises two loops (1, 2) to hold a toddler between the legs. A strap (3) is attached to the top of the loops for carrying the child. The movable straps (11, 12) fitted with handle (13, 14) are attached to the strap (3). When the child is guided by this harness, he can acquire the notions of balance more quickly through the use of the handles (13, 14).

Classifications:

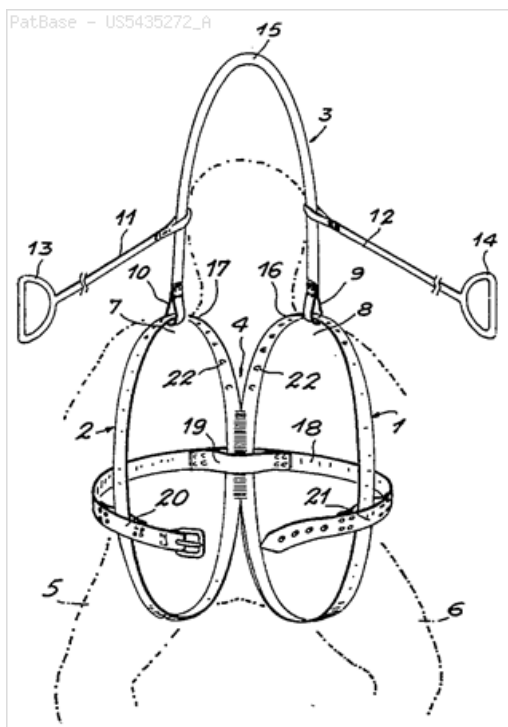
International (IPC 8-9): A47D13/04 A47D13/08 (Advanced/Invention); A47D13/00 (Core/Invention)

International (IPC 1-7): A47D13/04 A47D13/08 A61H3/00 A63B69/00 B62J1/28

CPC: A47D13/046

European: A47D13/04D

US: 119/770 119/857 128/875 182/6 297/484



Family:

Publication number	Publication date	Application number	Application date
EP0605450 A1	19940713	EP19920918120	19920810
FR2680088 A1	19930212	FR19910010137	19910808
FR2680088 B1	19941230	FR19910010137	19910808
US5435272 A	19950725	US19940193097	19940331
WO9302596 A1	19930218	WO1992FR00785	19920810

Priority:

FR19910010137 19910808

WO1992FR00785 19920810

Probable Assignee: EPSTEIN BENOIT DOV

Assignee(s): (std): EPSTEIN BENOIT DOV

Inventor(s): (std): BENOIT DOV EPSTEIN ; DOV EPSTEIN BENOIT ; EPSTEIN BENOIT DOV

Designated states: AT BE CH DE DK ES FR GB GR IE IT JP LI LU MC NL SE US

8) Family number: 23406699 (US2005075703A)

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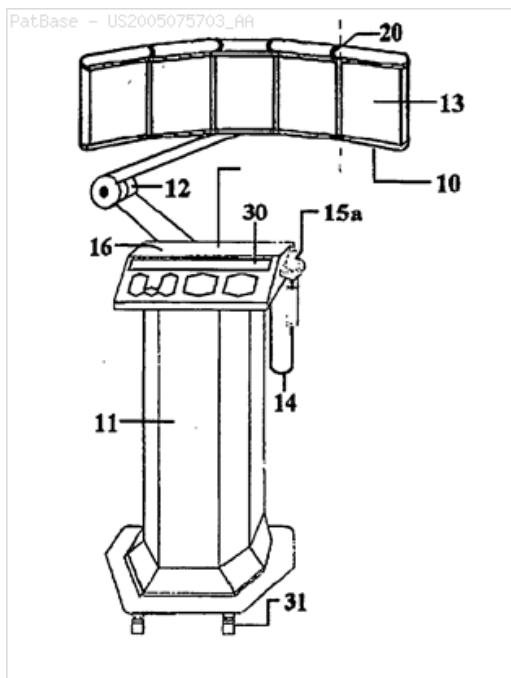
Title: PHOTODYNAMIC STIMULATION DEVICE AND METHODS

Abstract: A treatment device which uses a light radiation of multiple wavelengths and pulse-shaped electromagnetic fields for the photodynamic stimulation of cells, especially cells of human tissue, and also for the activation and stimulation of light sensitive substances (PTD). The device produces energy radiation by the use of semiconductor and/or laser diodes, which emit light in several separate wavelengths due to a special operation mode and the use of tuneable diodes. The equipment consists of a stand, with which machine applicators are connected via a jointed arm. The stand is freely moveable on wheels and includes a control mechanism whereby the various parameters for therapy can be adjusted and switched on and off. The stand is also connected to a hand applicator for treatment of small tissue-areas, e.g., acupuncture points. Photodynamic substances are introduced into the tissue with a special hand applicator.

Classifications:

International (IPC 8-9): A61B17/00 A61C19/00 A61F7/00 A61H39/00

A61M35/00 A61M37/00 A61N1/30 A61N1/40 A61N5/06
A61N5/073 (Advanced/Invention);
A61B17/00 A61C19/00 A61H39/00 A61N5/073 (Advanced/Non-invention);
A61F7/00 A61H39/00 A61M35/00 A61M37/00 A61N1/30 A61N1/40
A61N5/06 (Core/Invention);
A61B17/00 A61C19/00 (Core/Non-invention);
A61H A61N (Subclass/Invention)
International (IPC 1-7): A61F2/00 A61H A61H39/00 A61M35/00
A61M37/00 A61N A61N1/30 A61N5/06 A61N5/06 A61N5/08
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Family:

Publication number	Publication date	Application number	Application date
AT176874 E	19990315	AT19920923413T	19921120
AT309030 E	20051115	AT20020701814T	20020122
AU199229294 A1	19930615	AU19920029294	19921120
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CH685148 A	19950413	CH19910003398	19911120
DE59209638 D1	19990401	DE19925009638	19921120
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DE60207202 T2	20060803	DE20026007202T	20020122
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DK1359977 T3	20060320	DK20020701814T	20020122
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EP0568666 B1	19990224	EP19920923413	19921120
EP1359977 A1	20031112	EP20020701814	20020122
EP1359977 B1	20051109	EP20020701814	20020122
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GR3030199 T3	19990831	GR19990401284T	19990513
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NO20033237 A0	20030717	NO20030003237	20030717
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US7311722 BB	20071225	US20020466734	20020122
WO02062420 A1	20020815	WO2002NO00033	20020122
WO02062420 B1	20020919	WO2002NO00033	20020122
WO02062420 C1	20031211	WO2002NO00033	20020122
WO9309847 A1	19930527	WO1992CH00228	19921120

Priority:

CH19910003398 19911120 WO1992CH00228 19921120 US19930094161 19931220
US20000711462 20001113 NO20010000373 20010122 WO2002NO00033 20020122
NO20030003237 20030717

Probable Assignee: HP MEDICAL GMBH

Assignee(s): (std): HP MEDICAL GMBH ; LARSEN ERIC ; LARSEN ERIK ; SOERENSEN SVEIN ; SOERENSEN SVEIN ; MDE MEDIZINTECHNIK GMBH

Assignee(s): ERIK LARSEN ; LARSEN ERIK SCHAFFHAUSEN CH

Inventor(s): (std): LARSEN ERIC ; LARSEN ERIK

Inventor(s): LARSEN ERIK SCHAFFHAUSEN CH ; ERIK LARSEN

Agent(s): LARSEN ASTA; NA; COHEN PONTANI LIEBERMAN AND PAVANE; COHEN PONTANI LIEBERMAN AND PAVANE LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CS CU CY CZ DE DK DM DZ EC EE 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 LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

Title: Turngeraet, insbesondere fuer hydrotherapeutische Behandlung Turngeraet, especially for hydro-therapeutic treatment (Machine translation)

Abstract: Source: DE9307160U1 [DE] (Claim 1) 1. Turngeraet, insbesondere fuer hydrotherapeutische Behandlung, das ein ortsgebundenes Geruest mit waagerechten Sprossen aufweist, dadurch gekennzeichnet, dass diese in einem Becken zum Teil unter der Wasseroberflaeche, in der senkrechten Richtung verschiebbar und in unterschiedlichen Hoehen befestigbar angeordnet ist.

Machine translation: (Claim 1) 1 Turngeraet, especially for hydro-therapeutic treatment, which has a location-sen Spross-bound scaffold with horizontal, wherein it is arranged in a tank attached to the part below the water surface in the vertical direction and moved in different heights.

Classifications:

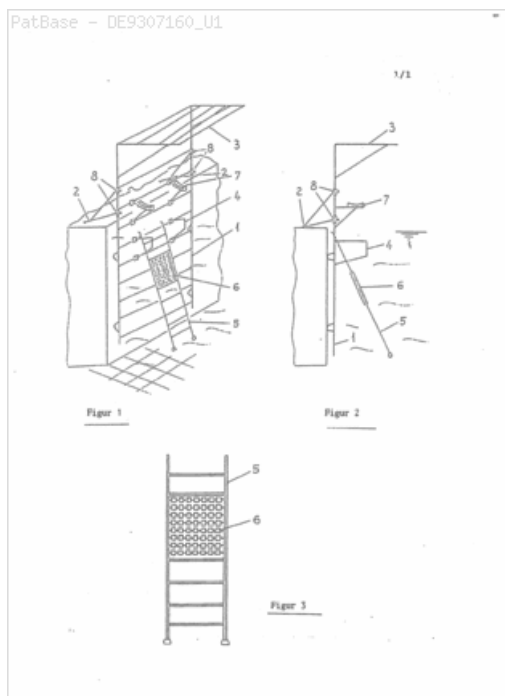
International (IPC 8-9): A63B9/00 (Advanced/Invention);

A61H15/00 (Advanced/Non-invention)

International (IPC 1-7): A61H11/00 A63B21/00 A63B9/00 E04H4/14

CPC: A63B9/00 A61H15/00 A61H2201/0115 A63B2225/60

European: A63B9/00 K61H15/00 K61H201/01E K63B225/60



Family:

Publication number	Publication date	Application number	Application date
DE9307160 U1	19931021	DE19930007160U	19930511

Priority:

DE19930007160U 19930511

Probable Assignee: GYOERGY SZABO

Assignee(s): (std): GYOERGY SZABO

Assignee(s): GYOERGY SZABO BUDAPEST HU

Title: PHYSIOTHERAPEUTIC APPARATUS

Abstract: Apparatus (110) for physiotherapy of the human body, in particular for strengthening muscle groups and mobilisation of joints of extremities, in which apparatus carriers (125a, 125b) mounted so as to be movable along a predetermined movement path are provided in a frame (118) each with a receptacle for the extremities to be treated. The carrier can be coupled to a drive motor so that the carriers (125a, 125b) are necessarily moved along the predetermined movement path and thus the extremities mounted in each particular receptacle (e.g. bracket 126) necessarily follow.

Classifications:

International (IPC 8-9): A61H1/02 (Advanced/Invention);

A61H11/02 A61H15/00 (Advanced/Non-invention);

A61H1/02 (Core/Invention);

A61H11/00 A61H15/00 (Core/Non-invention)

International (IPC 1-7): A61H1/00 A61H1/02 A61H11/00 A61H23/02 H02P7/00

CPC: A61H2201/1215 A61H2201/1409 A61H2201/1635

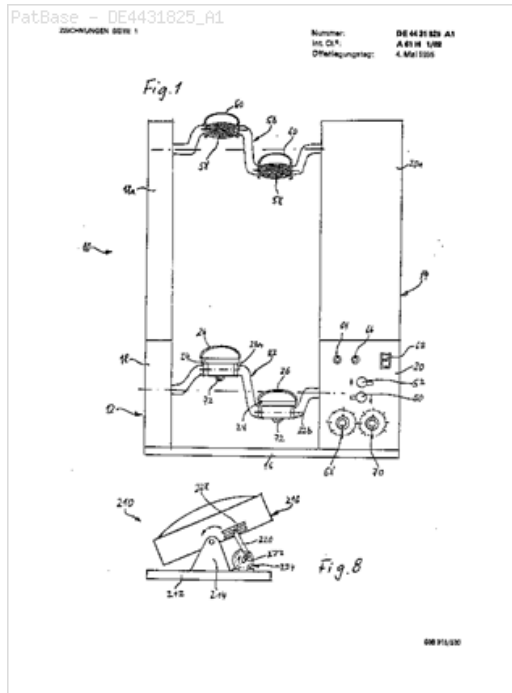
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A63B22/0605 A61H1/0214 A61H1/0266 A61H11/02 A61H2015/0007

A61H2201/018 A63B22/001 A63B22/0005

European: A61H1/02C A63B22/00A6 A63B22/06C K61H1/02L5

K61H11/02 K61H15/00A3 K61H201/01L4 K63B22/00A2 K63B22/06C



Family:

Publication number	Publication date	Application number	Application date
DE4431825 A1	19950504	DE19944431825	19940907
DE9316611 U1	19931223	DE19930016611U	19931029
DE9422348 U1	20000810	DE19940022348U	19940907

Priority:

DE19930016611U 19931029 DE19940022348U 19940907 DE19944431825 19940907

Probable Assignee: VITAL ERZEUGNISSE GMBH

Assignee(s): (std): PIOTROWSKI ELKE ; VITAL ERZEUGNISSE GMBH

Assignee(s): PIOTROWSKI ELKE 68519 VIERNHEIM DE

Inventor(s): (std): PIOTROWSKI ELKE

Inventor(s): PIOTROWSKI ELKE 68519 VIERNHEIM DE

11) Family number: 11512533 (US5300090A)

© PatBase

Title: EXERCISE MACHINE

Abstract: A multiple movement exercising machine is powered by an electric drive motor which is used to effect movement of various exercising components. The drive motor drives a shaft on which a plurality of pulleys are rotationally mounted. A selector arrangement is used to connect a selected one of the pulleys within the shaft so that the pulley rotates with the shaft and drives an exercising component linked to that pulley by a belt. One end of the machine is preferably pivotable relative to the remainder of the machine about a vertical pivot axis. The extent of pivotal movement is preferably selectively variable.

Classifications:

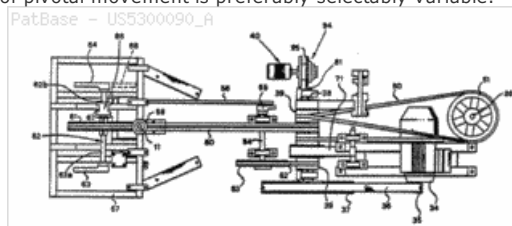
International (IPC 8-9): A61H1/02 (Advanced/Invention); A61H1/02 (Core/Invention)

International (IPC 1-7): A61F5/00

CPC: A61H2201/1215 A61H2201/1418 A61H2201/1604 A61H2201/1614 A61H2201/1623 A61H2201/1628 A61H2201/164 A61H2201/1676 A61H1/02 A61H1/0237 A61H1/0281 A61H2001/0248 A61H2203/0456 Y10T74/1946

European: A61H1/02 K61H1/02L K61H1/02L2A1 K61H1/02L2S K61H1/02M2 K61H203/04F2

US: 601/26 601/35 606/242 606/243 606/245 74/371



Family:

Publication number	Publication date	Application number	Application date
US5300090 A	19940405	US19920940311	19920903

Priority:

US19920940311 19920903

Probable Assignee: CHALLENGE MACHINERY PROPRIETARY LTD

Assignee(s): (std): CHALLENGE MACHINERY PROPRIETAR

Assignee(s): CHALLENGE MACHINERY PROPRIETARY LTD ; CHALLENGE MACHINERY (PROPRIETARY) LTD ; CHALLENGE MACHINERY LTD

Inventor(s): (std): PRIMIC HEINRICH L

12) Family number: 10756141 (EP0692234A2)

© PatBase

Title: Suspension device for physiotherapy

Abstract: The suspension device comprises a lifting head (5) which has at least two positioning struts (8). The struts point downwards from the lifting head and at least one cable (16) is connected to the patient (29) from the struts. The lifting head has at least one crank (17) rotatably driven on a vertical crank axle (18), from each of which at least one cable (16') is connected to the patient. The lifting head can be horizontally and vertically adjusted. The positioning struts can swivel on a first horizontal swivel axle (13) in a neutral position for all the functional parts of the lifting head, and can be set at different angles by bolts (22) and holes (21).

Classifications:

International (IPC 8-9): A61G13/00 A61G7/10

A61H1/02 (Advanced/Invention)

International (IPC 1-7): A61G13/08 A61G7/015 A61H1/00 A61H1/02

A61H23/00 A61H33/00

CPC: A61G7/1015 A61G7/1019 A61G7/1042 A61G7/1055

A61G7/1057 A61G7/1076 A61G13/009 A61G2200/32 A61G2200/325

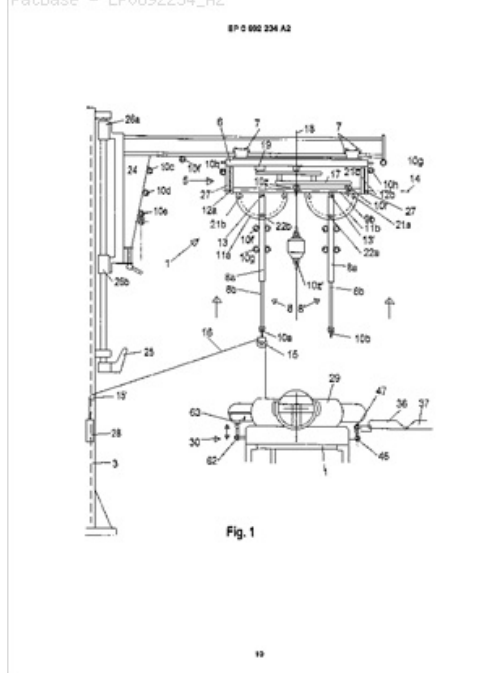
A61H1/02

European: A61G13/00M A61G7/10N2 A61G7/10N6 A61G7/10S2

A61G7/10T6 A61G7/10T8 A61H1/02 K61G200/32 K61G200/32B

K61G7/10Z4

PatBase - EP0692234_A2



Family:

Publication number	Publication date	Application number	Application date
DE4424562 C1	19960201	DE19944424562	19940712
EP0692234 A2	19960117	EP19950110929	19950712
EP0692234 A3	19960320	EP19950110929	19950712

Priority:

DE19944424562 19940712

Probable Assignee: OLARU NICOLAIE

Assignee(s): (std): OLARU NICOLAIE

Assignee(s): OLARU NICOLAIE 81373 MUENCHEN DE

Inventor(s): (std): OLARU NICOLAIE

Inventor(s): OLARU NICOLAIE 81373 MUENCHEN DE

Designated states: AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

13) Family number: 18906517 (US6102882A)

© PatBase

Title: Physiotherapy apparatus for the treatment of articular stiffness

Abstract: PCT No. PCT/ES97/00087 Sec. 371 Date Dec. 10, 1997 Sec. 102(e) Date Dec. 10, 1997 PCT Filed Apr. 15, 1996 PCT Pub. No. WO97/38660 PCT Pub. Date Oct. 23, 1997Physiotherapy apparatus for the treatment of articular stiffness including a table for a patient having a static board, a moving board which is displaceable towards and away from the static board and a device for applying a traction force between parts of the patient's body. The moving board is mounted such that it can also rotate about a horizontal axis between a horizontal position and an inclined position, and about a vertical axis between two extreme positions which are symmetrical with respect to a longitudinal axis of the table. The device for applying a traction force includes a traction cord and a system of pulleys with which the cord is associated in order to apply the traction to a joint of the patient in a desired direction. The apparatus is highly versatile, permitting treatment of cervical and lumbar vertebrae, hip, shoulder, elbow, wrist, knee and ankle.

Classifications:

International (IPC 8-9): A61H1/02 (Advanced/Invention);

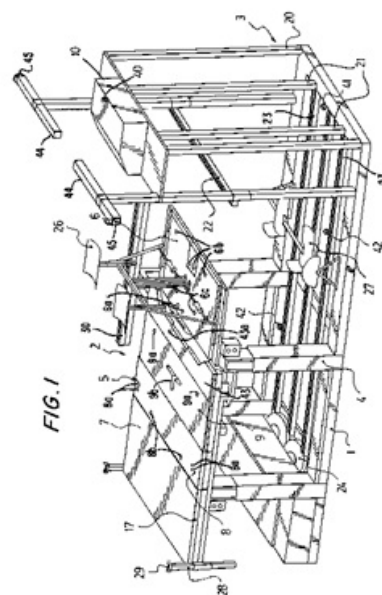
A61H1/02 (Advanced/Non-invention)

International (IPC 1-7): A61H1/02 A61M1/00

CPC: A61H1/0222 A61H2203/045

European: A61H1/02D1 K61H203/04F1

US: 602/32 606/242 606/243

**Family:**

Publication number	Publication date	Application number	Application date
AT207335 E	20011115	AT19970916464T	19970410
DE69707628 D1	20011129	DE19976007628	19970410
EP0848940 A1	19980624	EP19970916464	19970410
EP0848940 B1	20011024	EP19970916464	19970410
ES2133215 AA	19990901	ES19960000902	19960415
ES2133215 BA	20000301	ES19960000902	19960415
JP11508803 T2	19990803	JP19970536768T	19970410
KR19990022932 A	19990325	KR19970709402	19970410
US6102882 A	20000815	US19970973673	19971210
WO9738660 A1	19971023	WO1997ES00087	19970410

Priority:

ES19960000902 19960415 WO1997ES00087 19970410

Probable Assignee: COBOTRAC SL

Assignee(s): (std): COBO COBO BERNABE ; COBOTRAC S L

Assignee(s): COBOTRAC SL ; COBOTRAC SL CALLE GAVINA ; COBO BERNABE COBO

Inventor(s): (std): COBO BERNABE COBO ; EL SOLICITANTE ; COBO COBO BERNABE

Designated states: AT BE CH CN DE DK ES FI FR GB GR IE IT JP KR LI LU MC NL PT SE US

14) Family number: 28648239 (WO9959516A1)

© PatBase

Title: APPARATUS FOR SUPERFICIAL OR DEEP MASSAGE OF THE HUMAN BODY

Abstract: An apparatus (1; 100) for the massage of the human body comprises at least a massaging element (2) motorised by related motorising means (53; 6; 7, 23, 10) which is able to rotate around an axis (8) of rotation transverse to the surface to be massaged and is provided with at least a pressure surface (9), rolling, offset with respect to the axis of rotation (8), which applies a contact pressure to the surface of the body to be massaged and which, in correspondence with the rotation of the massaging element (2), describes a revolution trajectory around said axis of rotation (8).

Classifications:

International (IPC 8-9): A61H1/00 A61H15/00

A61H37/00 (Advanced/Invention);

A61H1/00 A61H37/00 (Advanced/Non-invention);

A61H15/00 (Core/Invention);

A61H1/00 A61H37/00 (Core/Non-invention);

A61H (Subclass/Invention)

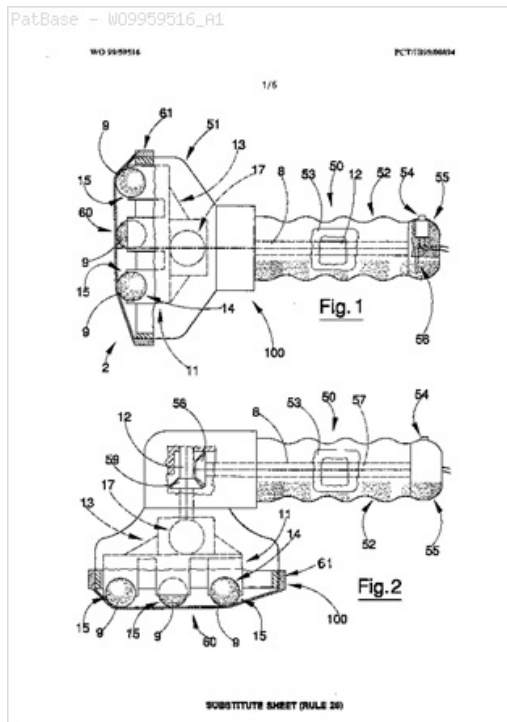
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CPC: A61H15/0078 A61H15/0085 A61H2015/0064 A61H2201/0138

A61H2201/0149 A61H2201/1669

European: A61H15/00B K61H15/00A5 K61H15/00B2

K61H201/01F10 K61H201/01F10B K61H201/16B8B

**Family:**

Publication number	Publication date	Application number	Application date
AU199935314 A1	19991206	AU19990035314	19990517
IT1300046 B1	20000404	IT1998BO00323	19980519
IT1306003 B1	20010523	IT1998RN00044	19981215
ITBO980323 A0	19980519	IT1998BO00323	19980519
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ITRN980044 A1	20000615	IT1998RN00044	19981215
WO9959516 A1	19991125	WO1999IB00894	19990517

Priority:

IT1998BO00323 19980519 IT1998RN00044 19981215 WO1999IB00894 19990517

Probable Assignee: ROVINELLI BRUNO S R L

Assignee(s): (std): CARBONARI MAURIZIO ; ROVINELLI BRUNO ; ROVINELLI BRUNO S R L

Assignee(s): ROVINELLI BRUNO SRL

Inventor(s): (std): CARBONARI MAURIZIO ; ROVINELLI BRUNO

Inventor(s): BRUNO ROVINELLI ; MAURIZIO CARBONARI

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZW

15) Family number: 28172145 (US2002016560A)

© PatBase

Title: Body pulsating method and apparatus

Abstract: A vest for a human body has an air core coupled to a pulsator operable to subject the vest to pulses of air which applies and releases high frequency pressure forces to the body. The pulsator has two diaphragms connected to an electric dc motor with rotary to reciprocating linear motion transmitting mechanisms operable to generate air pulses in an air pulsing chamber. The diaphragms also increase the pressure in a manifold chamber. A check valve connects the manifold chamber with a pulsing chamber to allow pressurized air to flow from the manifold chamber into the pulsing chamber. An air flow control valve in communication with the manifold chamber is used to adjust the pressure of the air in the manifold and pulsing chambers.

Classifications:

International (IPC 8-9): A61H23/04 A61H31/00 A61H9/00

F04B45/04 (Advanced/Invention);

A61H23/04 A61H9/00 F04B45/00 (Core/Invention);

A61H (Subclass/Invention)

International (IPC 1-7): A61H1/00 A61H9/00 F04B17/00 F04B3/00 F04B49/00

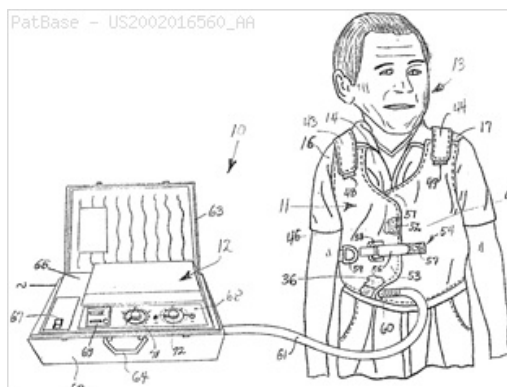
CPC: A61H31/00 A61H9/0078 A61H9/0092 A61H31/006

A61H2031/025 A61H2201/0103 A61H2201/1238 A61H2201/165

A61H2205/08 F04B45/04 F04B45/043

European: A61H31/00 A61H31/00H4 A61H9/00P6 A61H9/00P6C F04B45/04 F04B45/04P K61H201/01A K61H201/12C K61H201/16A20 K61H205/08 K61H31/02A6

US: 417/244 417/557 601/149 601/150 601/151 601/48 601/48P 92/140 92/99

**Family:**

Publication number	Publication date	Application number	Application date
AT533457 E	20111215	AT20010952988T	20010712
AU2001273690 AA	20020130	AU20010273690	20010712
AU200173690 A1	20020130	AU20010073690	20010712
AU200173690 A5	20020130	AU20010073690	20010712
CA2410271 AA	20021114	CA20012410271	20010712
CA2410271 C	20091006	CA20012410271	20010712
DE60145679 D1	20120126	DE20016045679	20010712
EP1299648 A1	20030409	EP20010952988	20010712
EP1299648 A4	20090218	EP20010952988	20010712
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ES2378981 T3	20120419	ES20010952988T	20010712
HK1054774 A1	20120831	HK20030106957	20030926
PT1299648 T	20120320	PT20010952988T	20010712
US2002016560 AA	20020207	US20010904440	20010712
US6547749 BB	20030415	US20010904440	20010712
WO0206673 A1	20020124	WO2001US41355	20010712

Priority:

US20000218128P 20000713 EP20010952988 20010712 US20010904440 20010712
WO2001US41355 20010712

Probable Assignee: ELECTROMED INC

Assignee(s): (std): ELECTROMED INC ; HANSEN CRAIG N

Assignee(s): HANSEN CRAIG N PLYMOUTH ; HITACHI LTD ; ELECTROMED INC NEW PRAGUE ; CRAIG N HANSEN

Inventor(s): (std): HANSEN CRAIG N ; HANSEN CRAIG

Inventor(s): CRAIG N HANSEN ; HANSEN CRAIG N PLYMOUTH

Agent(s): SEABY AND ASSOCIATES; DENNEMEYER AND ASSOCIATES SA; WAXWEILER JEAN

Designated states: AT AU BB BE BF BG BJ BR CA CF CG CH CI CM CN CU CY CZ DE DK ES FI FR GA GB GN GR GW HU IE IT JP KP KR LI LK LU MC MG ML MN MR MW NE NL NO NZ PL PT RO RU SD SE SK SN TD TG TR UA US

16) Family number: 24130595 (US2003093021A)

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Title: GAIT-LOCOMOTOR APPARATUS

Abstract: The gait-locomotor apparatus of the present invention is a device for overcoming impeded locomotion in humans and is aimed at enabling people with handicapped lower limbs to walk. The gait-locomotor apparatus that is wore on a disabled user comprises a brace having a plurality of jointed segments that are adapted to fit the lower body of the disabled user and propulsion means that is adapted to provide relative movement between the plurality of jointed segments. The gait-locomotor apparatus further comprises at least one sensor adapted to monitor the angular position of at least one of the plurality of jointed segments and a control unit that is adapted to supervise the propulsion means and to receive feedback information from the sensors so as to facilitate the brace to perform walking patterns. The disabled user that wears the gait-locomotor apparatus of the present invention is able to steadily stand in a stance position supported by the brace, and is able to walk in various walking patterns using the control unit while fully participating in the process.

Classifications:

International (IPC 8-9): A61F5/01 A61N1/36

A63B21/00 (Advanced/Invention);

A61H3/00 (Advanced/Non-invention);

A61F5/01 A61N1/36 (Core/Invention);

A61H3/00 (Core/Non-invention)

International (IPC 1-7): A61F5/00 A61F5/01 A61N1/36

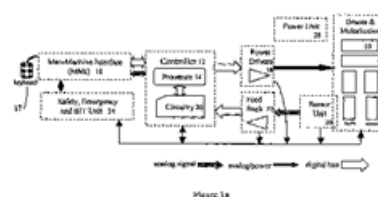
CPC: A61F5/0102 A61H3/008 A61H2201/5007 A61N1/36003 B25J9/0006

European: A61F5/01D A61N1/36A B25J9/00E K61H201/11D K61H201/50C K61H3/00H

US: 482/66 482/74 482/75 602/23 602/23P

PatBase - US2003093021_AA

Patent Application Publication May 15, 2003 Sheet 1 of 16 US 2003/093021 A1



Family:

Publication number	Publication date	Application number	Application date
AT416739 E	20081215	AT20020075669T	20020219
DE60230214 D1	20090122	DE20026030214	20020219
EP1260201 A1	20021127	EP20020075669	20020219
EP1260201 B1	20081210	EP20020075669	20020219

ES2319390 T3	20090507	ES20020075669T	20020219
US2003093021 AA	20030515	US20010864845	20010524
US7153242 BB	20061226	US20010864845	20010524

Priority:

US20010864845 20010524

Probable Assignee: REWALK ROBOTICS LTD

Assignee(s): (std): GOFFER AMIT ; ARGO MEDICAL TECHNOLOGIES LTD

Assignee(s): KREOS CAPITAL EXPERT FUND LP ; KREOS CAPITAL IV EXPERT FUND LTD ; KREOS CAPITAL V EXPERT FUND LP ; REWALK ROBOTICS LTD

Inventor(s): (std): GOFFER AMIT

Agent(s): PRINS ADRIANUS WILLEM ET AL; SHALOM; SALTAMAR INNOVATIONS

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

17) Family number: 30217392 (US2005234372A)

© PatBase

Title: RESPIRATORY VEST

Abstract: A vest for a human body has a bladder coupled to a pulsator operable to subject the vest to repeated pulses of air which applies and releases pressure to the body. The vest has a cover having a pocket accommodating the bladder, shoulder straps, and end flaps. The bladder is permanently connected to the cover. Releasable hook and loop fasteners connect the straps to chest portions of the vest and end flaps to each other. A releasable retainer secured to the end flaps prevent the end flaps and releasable fasteners from disengaging when air pressure pulses are applied to the vest. The bladder has an air chamber and a sleeve having an air receiving passage and openings to allow air to flow from the air receiving passage into the air chamber. An oval-shaped coil spring within the sleeve maintains the air receiving passage open.

Classifications:

International (IPC 8-9): A61H23/02 A61H23/04

A61H31/00 (Advanced/Invention);

A61H23/02 A61H23/04 A61H31/00 (Core/Invention)

International (IPC 1-7): A61H31/00

CPC: A61H2201/1409 A61H2205/084 A61H23/0254 Y10S601/11

Y10S601/07 A61H23/04 A61H9/0078 A61H31/00 A61H31/006

A61H2031/025 A61H2201/0103 A61H2201/0157 A61H2201/1238

A61H2201/1616 A61H2201/1621 A61H2201/165 A61H2201/1688

A61H2205/08

European: A61H23/02R A61H23/04 A61H31/00 A61H31/00H4

A61H9/00P6 K61H201/01A K61H201/01H K61H201/12C

K61H201/14A K61H201/16A20 K61H201/16A6A K61H201/16A8A

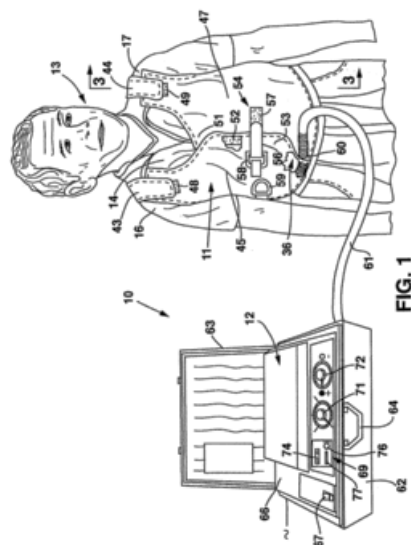
K61H201/16C4 K61H205/08 K61H205/08D K61H31/02A6

US: 601/152 601/152S 601/41 601/41P 601/44 601/44S 601/DIG.11

601/DIG.7

PatBase - US2005234372_AA

U.S. Patent Jan. 13, 2004 Sheet 1 of 10 US 6,676,614 B1



Family:

Publication number	Publication date	Application number	Application date
US2005234372 AA	20051020	US20050100778	20050407
US6676614 BA	20040113	US20010902471	20010710
US7278978 BA	20071009	US20030646357	20030822
US7374550 BB	20080520	US20050100778	20050407

Priority:

US20000217367P 20000711

US20010902471 20010710

US20030646357 20030822

US20050100778 20050407

Probable Assignee: ELECTROMED INC

Assignee(s): (std): ELECTROMED INC ; HANSEN CRAIG N ; HELGESON LONNIE J

Inventor(s): (std): HANSEN CRAIG N ; HELGESON LONNIE J

Inventor(s): HANSEN CRAIG ; HELGESON LONNIE

Agent(s): RICHARD JOHN BARTZ, SUITE 350; RICHARD JOHN BARTZ SUITE 350

18) Family number: 32360683 (US2005235988A)

© PatBase

Title: BODY PULSATING METHOD AND APPARATUS

Abstract: A vest for a human body has an air core coupled to a pulsator operable to subject the vest to pulses of air which applies and releases high frequency pressure forces to the body. The pulsator has two diaphragms connected to a brushless

electric dc motor with rotary to reciprocating linear motion transmitting mechanisms comprising scotch yokes having anti-lash assemblies operable to generate air pulses in an air pulsing chamber. The diaphragms also increase the pressure in a manifold chamber. A check valve connects the manifold chamber with a pulsing chamber to allow pressurized air to flow from the manifold chamber into the pulsing chamber. An air flow control valve in communication with the manifold chamber is used to adjust the pressure of the air in the manifold and pulsing chambers. A programmable motor controller adjusts the duration of operation and speed of the motor to vary the operational time and frequency of the air pulses.

Classifications:

International (IPC 8-9): A61H23/00 A61H23/02 A61H23/04 A61H31/00 A61H31/02 A61H7/00 A61H9/00 A61M15/00 A61M16/00 A62B7/00 F04B27/04 F04B45/04 F16C3/04 (Advanced/Invention); A61H23/00 A61H23/04 A61H31/00 A61H7/00 A61M15/00 A61M16/00 (Advanced/Non-invention); A61H23/04 A61H31/00 A61H9/00 A61M15/00 A61M16/00 A62B7/00 F16C3/04 (Core/Invention); A61M (Subclass/Invention)

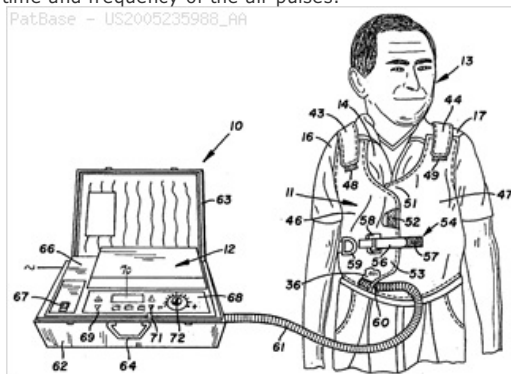
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CPC: Y10S601/07 Y10S601/11 A61H9/0078 A61H2201/165 A61H2201/5007 A61H2201/5038 A61H2201/5041 A61H2205/08 A61H2205/084 F04B35/06 F04B45/043 Y10T74/18248 Y10T74/211 Y10T74/2116

European: A61H9/00P6 F04B35/06 F04B45/04P K61H201/11D K61H201/16A20 K61H201/50C K61H201/50F6 K61H201/50F8 K61H205/08 K61H205/08D

US: 128/200.24 128/200.240P 128/200.240S 128/202.19 128/202.190P 128/202.190S 601/41 601/44 601/44P 601/DIG.11 601/DIG.7 74/49 74/570.1 74/570.3

PatBase - US2005235988_AA



Family:

Publication number	Publication date	Application number	Application date
AU2005238010 AA	20051110	AU20050238010	20050420
AU2005238010 BB	20101202	AU20050238010	20050420
AU2011200913 AA	20110324	AU20110200913	20110302
AU2011200913 BB	20131010	AU20110200913	20110302
CA2541333 AA	20060403	CA20052541333	20050420
CA2541333 C	20131217	CA20052541333	20050420
CN101123935 A	20080213	CN200580019156	20050420
EP1737519 A2	20070103	EP20050738765	20050420
EP1737519 A4	20120718	EP20050738765	20050420
HK1111595 A3	20080815	HK20080106202	20080604
IN03950CN2006 A	20070615	IN2006CN03950	20061027
KR101092790 B1	20111209	KR20067025898	20061122
KR101150034 B1	20120530	KR20117019733	20050420
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NZ550573 A	20090531	NZ20050550573	20050420
US2005235988 AA	20051027	US20050089862	20050325
US2008086062 AA	20080410	US20070980256	20071030
US2008092884 AA	20080424	US20070977201	20071025
US7537575 BB	20090526	US20050089862	20050325
US7770479 BB	20100810	US20070977201	20071025
US8740824 BB	20140603	US20070980256	20071030
WO05105188 A2	20051110	WO2005US13215	20050420
WO05105188 A3	20071004	WO2005US13215	20050420
ZA200609351 A	20080430	ZA20060009351	20061110

Priority:

US20040564431P 20040422 US20040564431 20040422 US20050089862 20050325
AU20050238010 20050420 WO2005US13215 20050420 US20070977201 20071025
US20070980256 20071030 AU20110200913 20110302

Probable Assignee: ELECTROMED INC

Assignee(s): (std): CROSS PAUL C ; ELECTROMED INC ; HANSEN CRAIG N ; HELGESON LONNIE J

Inventor(s): (std): CROSS PAUL C ; HELGESON LONNIE J ; HANSEN CRAIG N

Inventor(s): HELGESON LONNIE ; LONNIE J HELGESON ; PAUL C CROSS ; HANSEN CRAIG ; CRAIG N HANSEN ; CROSS PAUL

Agent(s): PHILLIPS ORMONDE FITZPATRICK; SEABY AND ASSOCIATES; RICHARD JOHN BARTZ; RICHARD JOHN BARTZ, SUITE 350; RICHARD JOHN BARTZ SUITE 350; BARTZ RICHARD JOHN; RICHARD JOHN; WINTHROP AND WEINSTINE PA

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 KM KP KR KZ LC LI 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 SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

19) Family number: 32559464 (EP1616547A1)

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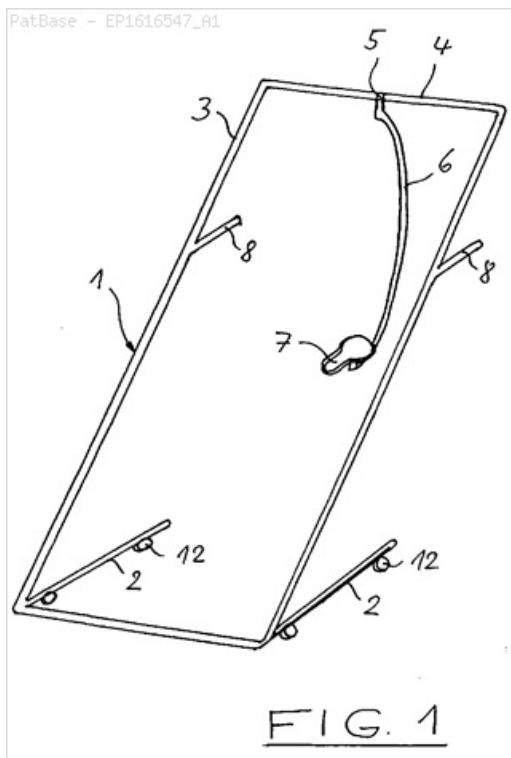
Title: BALANCING, WALKING AND/OR STANDING AID

Abstract: A rectangular frame (1) made of steel tubes is joined with its lower corners to two horizontally positioned bars (2), each fitted with a front and a rear wheel (12). The frame (1) is slightly tilted towards the back. Two handles (8) are attached to the vertical segments (3). A seat (7) is joined to the lower end of a curved bar (6) swivel mounted with its upper end to the upper transversal segment (4) of the frame (1). The patient is seated on the seat (7) and can direct the frame holding the handles (8).

Classifications:

International (IPC 8-9): A61H1/00 A61H3/00 A61H3/04 B62K17/00 (Advanced/Invention); A61H1/00 A61H3/00 B62K17/00 (Core/Invention)

CPC: A61H2201/0192 A61H2201/1253 A61H2201/1633
A61H2201/1635 A61H2201/164 A61H2201/1671 A61H3/04
A61H3/008 A61H2003/043 A61H2003/046 A61H2203/0487
European: A61H3/00H A61H3/04 K61H203/04L2 K61H3/04A
K61H3/04B



Family:

Publication number	Publication date	Application number	Application date
DE102004033470 A1	20060216	DE200410033470	20040710
DE102004033470 B4	20150212	DE200410033470	20040710
EP1616547 A1	20060118	EP20050014937	20050709

Priority:

DE200410033470 20040710

Probable Assignee: GILBERT HERBERT

Assignee(s): (std): GILBERT HERBERT

Inventor(s): (std): GILBERT HERBERT

Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

20) Family number: 33174522 (WO06079327A1)

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Title: KINEMATIC LYING DEVICE

Abstract: Disclosed is a device for placing a human being in a suspended oscillating position for relaxing and therapeutic purposes. In previously known horizontal relaxing devices, support areas for the whole body are mounted in a swinging, oscillating, or springy fashion such that all body parts are synchronously subjected to the same movements while the joints remain rather immobile. The aim of the invention is to make it possible to lie on dimensionally stable support areas in an oscillating manner while moving joints. Said aim is achieved by a lying device comprising at least 5 dimensionally stable body part support areas (1) which are characterized in that the same are mounted in a suspended oscillating, upright swinging, or robot kinematic fashion with translational, rotational, and oscillating degrees of kinematic freedom. Human beings lying on the inventive lying device experience significant tension relief or relaxation. Novel forms of therapy are made possible especially when the position is controlled electronically.

Classifications:

International (IPC 8-9): A47C17/84 A47C17/86 A61F5/01

A61G7/018 A61G7/047 A61G7/05 A61H1/00

A61H1/02 (Advanced/Invention);

A47C17/00 A61F5/01 A61G7/00 A61G7/002 A61G7/05

A61H1/00 (Core/Invention)

CPC: A47C1/143 A47C7/024 A47C7/405 A47C7/503 A47C17/04

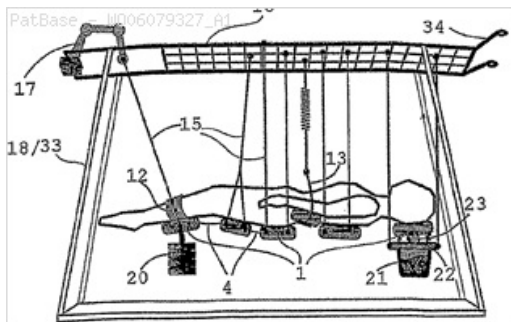
A47C17/84 A61H1/003 A61H1/0229 A61H2203/0456 A61H2230/06

A61H2230/08 A61H2230/30 A61H2230/42 A61H2230/65

European: A47C1/14C A47C17/04 A47C17/84 A47C7/02C

A47C7/40C A47C7/50C A61H1/00C2 A61H1/02D12 K61H203/04F2

K61H230/06 K61H230/08 K61H230/30 K61H230/42 K61H230/65



Family:

Publication number	Publication date	Application number	Application date
AT446072 E	20091115	AT20060705854T	20060127
DE102005004074 A1	20060803	DE200510004074	20050128
DE112006000729 A5	20080110	DE200611000729T	20060127
DE502006005175 D1	20091203	DE200650005175T	20060127
EP1841392 A1	20071010	EP20060705854	20060127
EP1841392 B1	20091021	EP20060705854	20060127
WO06079327 A1	20060803	WO2006DE000122	20060127

Priority:

DE200510004074 20050128

DE200610000981 20060107

WO2006DE00122 20060127

Probable Assignee: SELT HERMANN JOSEF**Assignee(s):** (std): SELT HERMANN JOSEF**Inventor(s):** (std): SELT HERMANN JOSEF**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 KM KN KP KR KZ LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW**21) Family number: 34890939 (US2007167888A)**

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Title: PHYSICAL THERAPY TOOL

Abstract: The physical therapy tools, systems, kits and methods described herein may be used to apply gentle, passive and progressive amounts of pressure (including numerous repetitions of small movements) to achieve therapeutic mobilization of a spinal joint. The tools described herein may include a plurality of pads and actuators, where the pressure within each actuator is controlled so that a continuously varying pressure may be applied to mimic the pressure applied by human hands. These tools may also include a controller and one or more user inputs. The physical therapy tools may be operated at different operating modes (e.g., continuously varying pressure modes, step-pulse high frequency modes, step-pulse low frequency modes) for treating a subject's spine, and may be part of a system or kit. Methods of treating a subject using these physical therapy tools are also described herein.

Classifications:**International (IPC 8-9):** A61F5/00 A61H1/00

A61H7/00 (Advanced/Invention);

A61H1/00 A61H7/00 (Core/Invention)

CPC: A61H1/0292 A61H7/001 A61H7/005 A61H2201/1246

A61H2205/081

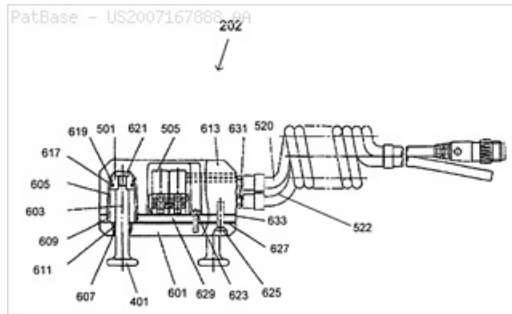
European: A61H1/02N A61H7/00B A61H7/00D4B K61H201/12C2

K61H205/08A

US: 128/845 601/101 601/101S 601/103 601/103P 601/105

601/105S 601/107 601/108 601/111 601/136 601/137 601/138

601/46 601/84 601/84S 601/97 601/97S 606/237 606/238 606/239

**Family:**

Publication number	Publication date	Application number	Application date
US2007167888 AA	20070719	US20060331486	20060113
US8357108 BB	20130122	US20060331486	20060113
WO07087063 A2	20070802	WO2006US49382	20061227
WO07087063 A3	20080103	WO2006US49382	20061227

Priority:

US20060331486 20060113

Probable Assignee: ADVANCED THERAPY SYSTEMS LLC**Assignee(s):** (std): ADVANCED THERAPY SYSTEMS LLC ; TAYLOR ALAN R ; TAYLOR ALAN R G ; ADVANCED SPINAL TECHNOLOGIES I**Assignee(s):** ADVANCED SPINAL TECHNOLOGIES INC ; TAYLOR ALAN RG**Inventor(s):** (std): TAYLOR ALAN R ; TAYLOR ALAN R G**Inventor(s):** TAYLOR ALAN RG ; TAYLOR ALAN**Agent(s):** MORRISON AND FOERSTER LLP**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 GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW**22) Family number: 41038378 (US2008009771A)**

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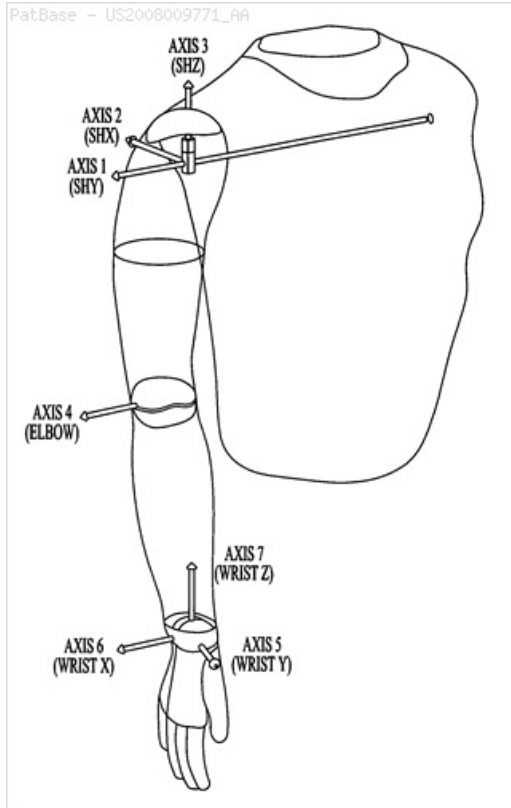
Title: EXOSKELETON

Abstract: This document discloses, among other things, a wearable structure having links and joints corresponding to those of a human upper body. Transducers are located on the wearable structure and are coupled to a processor. The transducers exchange energy and information between the user and the wearable structure and enable control of the movement of the structure.

Classifications:**International (IPC 8-9):** A61B5/103 A61H1/02 (Advanced/Invention);

A61B5/103 (Core/Invention)

CPC: A61H1/0274 B25J9/0006**European:** B25J9/00E K61H1/02M**US:** 600/587 601/33 601/33P



Family:

Publication number	Publication date	Application number	Application date
US2008009771 AA	20080110	US20070729998	20070329
US2012179075 AA	20120712	US20110100959	20110504

Priority:

US20060743934P 20060329 US20070729998 20070329 US20110100959 20110504

Probable Assignee: OF WASHINGTON UNIV

Assignee(s): (std): PERRY JOEL ; ROSEN JACOB ; UNIV WASHINGTON

Assignee(s): UNIVERSITY OF WASHINGTON ; NATIONAL SCIENCE FOUNDATION ; OF WASHINGTON UNIV

Inventor(s): (std): PERRY JOEL ; ROSEN JACOB

Agent(s): SCHWEGMAN LUNDBERG AND WOESSNER PA

23) Family number: 41968271 (WO09130510A1)

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Title: LIMB MOBILISER AND EXERCISER

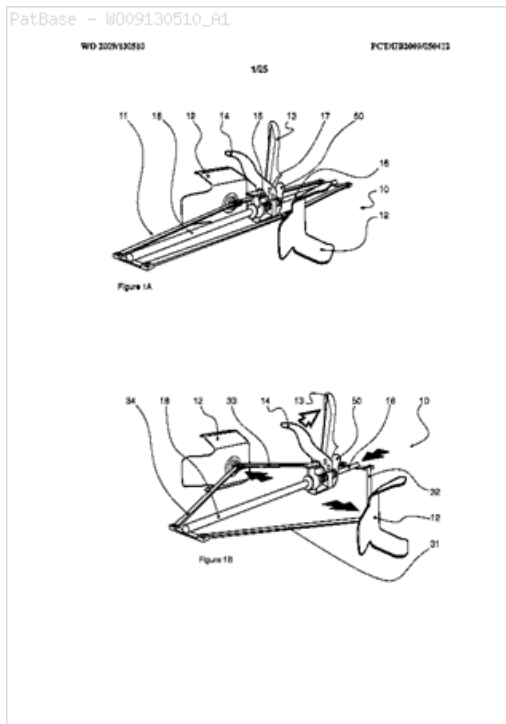
Abstract: A limb loading and movement device (201) has opposed limb contact and displacement elements (203), with an intervening transfer drive (211), drive actuator (204) with input control (202).

Classifications:

International (IPC 8-9): A61H1/02 A63B23/04 (Advanced/Invention);
A61H1/02 (Core/Invention)

CPC: A61H1/0244 A61H1/0237 A61H2001/0248 A61H2201/0161
A61H2201/5058 A63B23/0482 A61H1/0274

European: A61H1/02L A61H1/02L2 A61H1/02M A63B23/04E
K61H1/02L2S K61H201/01J K61H201/50S

**Family:**

Publication number	Publication date	Application number	Application date
GB200807584 A0	20080604	GB20080007584	20080425
GB200906911 A0	20090603	GB20090006911	20090423
GB2459379 A1	20091028	GB20090006911	20090423
GB2459379 B2	20121017	GB20090006911	20090423
WO09130510 A1	20091029	WO2009GB50412	20090423

Priority:

GB20080007584 20080425

Probable Assignee: COLLINS DAVE**Assignee(s):** (std): COLLINS DAVE ; STEPHENSON RON**Assignee(s):** DAVE COLLINS ; RON STEPHENSON**Inventor(s):** (std): STEPHENSON RON ; COLLINS DAVE**Inventor(s):** RON STEPHENSON ; DAVE COLLINS**Agent(s):** TILLBROOK CHRIS J

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE 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 IS IT JP KE KG KM KN KP KR 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

24) Family number: 44000514 (BRPI0801486A)

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Title: remodelador ajustavel Remodeling adjustable (Machine translation)

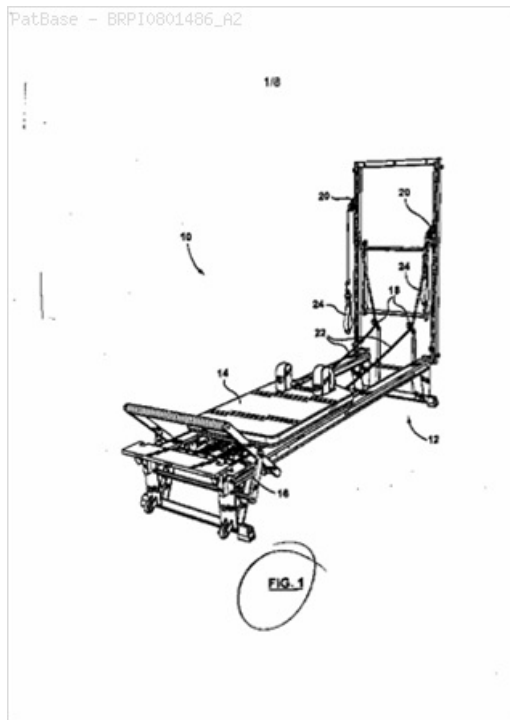
Abstract: Source: BRPI0801486A [PT] REMODELADOR AJUSTAVEL. A presente invencao refere-se a um remodelador ajustave. O remodelador inclui: uma estrutura, um carro transportador, montado de forma deslizando na estrutura horizontal; e pelo menos um elemento de resistencia preso ao carro. Uma corda conecta o carro a pelo menos uma guia inferior e pelo menos uma guia superior. Puxar a corda causa o movimento do carro condutor ao longo da estrutura contra a resistencia provida pelo elemento de resistencia. Os guias podem ser de altura reajustavel. O remodelador pode incluir um sistema de retracao de corda. Metodos relacionados para exercicio tambem sao providos.

Machine translation: ADJUSTABLE refurbished. The present invention relates to an adjustable remodeling. The remodeling includes: a structure, a car carrier, mounted on a sliding horizontal structure, and at least one resistance element attached to the car. A cord connects the car to at least one lower guide and at least one upper guide. Pull the string causes the movement of the car driver along the structure against the resistance provided by the resistance element. Guides can be readjusted time. The remodeling system may include a retraction cord. Methods related to exercises are also provided.

Classifications:**International (IPC 8-9):** A61H1/02 A63B21/00

A63B23/00 (Advanced/Invention);

A61H1/02 A63B21/00 A63B23/00 (Core/Invention)

**Family:**

Publication number	Publication date	Application number	Application date
BRPI0801486 A2	20091110	BR2008PI01486	20080325

Priority:

BR2008PI01486 20080325

Probable Assignee: MERRITHEW CORP**Assignee(s):** (std): MERRITHEW CORP**Inventor(s):** (std): BAEZ CARLOS ; BHATT VIRAL ; MERRITHEW LINDSAY G ; MERRITHEW MOIRA M**Inventor(s):** MOIRA M MERRITHEW ; VIRAL BHATT ; CARLOS BAEZ ; LINDSAY G MERRITHEW**25) Family number: 44964453** (DE102008062939B4)

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Title: Therapiegeraet

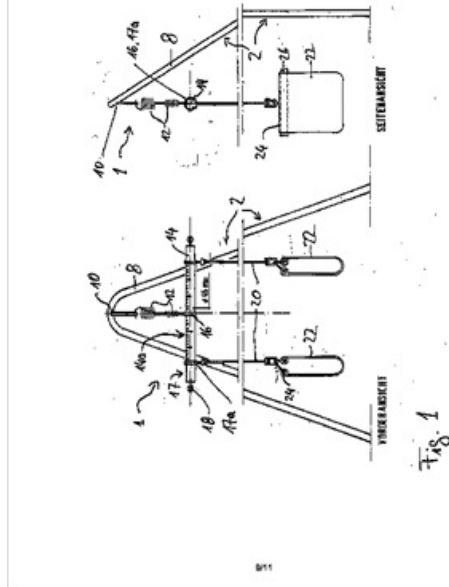
Abstract: Source: DE102008062939B4 [DE] Therapiegeraet (1; 101) mit wenigstens einer Aufnahmeeinrichtung, zur Aufnahme eines Koerperteils einer zu behandelnden Person, naemlich des Kopfes, eines Rumpfbereichs und/oder eines Extremitaetenbereichs, wobei die Aufnahmeeinrichtung (22; 122, 123) in den beiden Endbereichen (17; 117) einer Ausgleichsstange (14; 114) angeordnet ist, die gelenkig in einer ersten zwischen den Endbereichen (17; 117) angeordneten Aufhaengung (17b, 117b) ueber dem aufzunehmenden Koerperteil der zu behandelnden Person angebracht ist, dadurch gekennzeichnet, dass die Ausgleichsstange (14; 114) ueber einen Wirbel (17b; 117b), welcher eine etwa in Aufhaengerichtung verlaufende Drehachse (209c) und zwei senkrecht dazu verlaufenden Schwenkachsen aufweist, mit einem Staender oder einer Laengsstange (130) gekoppelt ist.

Classifications:**International (IPC 8-9):** A61H1/00 A63B22/00

A63B23/00 (Advanced/Invention);

A61H1/00 A63B22/00 A63B23/00 (Core/Invention)

CPC: A61H1/0229 A61H2203/0443 A63B69/0057 A63B69/0064**European:** A61H1/02D12 K61H203/04F K63B69/00N4 K63B69/00N6



Family:

Publication number	Publication date	Application number	Application date
DE102008062939 A1	20100506	DE200810062939	20081223
DE102008062939 B4	20130418	DE200810062939	20081223

Priority:

DE200810055722 20081104 DE200810062939 20081223

Probable Assignee:

BUESCHLER GERNOT

Assignee(s): (std):

BUESCHLER GERNOT

Assignee(s):

BUESCHLER

Inventor(s): (std):

BUESCHLER GERNOT

26) Family number: 44995251 (US2012101414A)

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Title: DEVICE FOR THERAPEUTICALLY TREATING AND/OR TRAINING THE LOWER EXTREMITIES OF A PERSON

Abstract: A device for therapeutically treating and/or training the lower extremities of a person, having driven controllable motion devices connected to a stationary frame and retaining means for attaching to each extremity, that can be displaced independently along walking trajectories. Motion devices provide an outrigger pivotable to various height levels, jointly connected at a first carriage of a linear guide on one side, and rotationally connected to a retaining means on the other side. A second carriage of the linear guide is disposed ahead of the first carriage and jointly connected to the outrigger by means of a connecting element. The first carriage has a first linear drive for changing the longitudinal position of each retaining means, the second carriage providing a second linear drive for changing the height level of each retaining means. The outrigger provides a rotary drive for changing the slope of each retaining means.

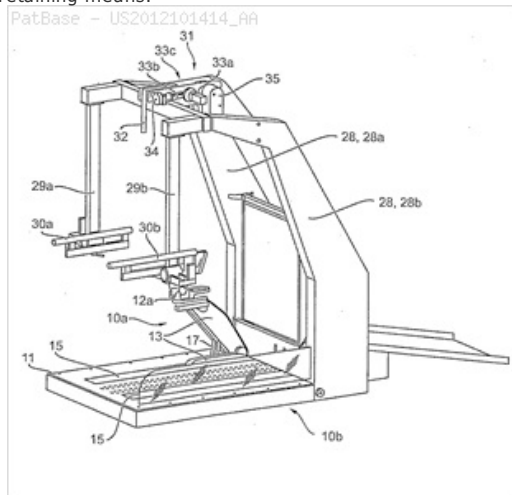
Classifications:

International (IPC 8-9): A61H A61H1/00 A61H1/02 A61H3/00 A63B21/00 A63B21/005 A63B22/00 A63B22/06 A63B23/04 A63B23/08 A63B69/00 (Advanced/Invention); A63B21/008 A63B22/00 (Advanced/Non-invention); A61H (Subclass/Invention)

CPC: A61H1/0255 A61H1/005 A61H1/0262 A63B21/00178 A63B21/00181 A63B21/0058 A63B21/0083 A63B21/0087 A63B22/0046 A63B22/0056 A63B22/06 A63B69/0064 A63B2022/0038

European: A61H1/00D A61H1/02L4 A63B21/005F A63B21/00P A63B21/00T A63B22/00P6 A63B22/06 A63B69/00N6 K63B21/008B2 K63B21/008C2 K63B22/00C8 K63B22/00D

US: 1/1 601/29 601/29P



Family:

Publication number	Publication date	Application number	Application date
AT11123 U2	20100515	AT20090000825U	20091223
AT11123 U3	20120415	AT20090000825U	20091223
AU2010252272 AA	20101202	AU20100252272	20100521

BRPI1008171 A2	20160308	BR2010PI08171	20100521
CA2763478 AA	20101202	CA20102763478	20100521
CA2763478 C	20140401	CA20102763478	20100521
CN102458340 A	20120516	CN201080032190	20100521
DE102009022560 A1	20101216	DE200910022560	20090525
DE102009022560 B4	20110217	DE200910022560	20090525
DE502010005156 D1	20131219	DE201050005156T	20100521
EP2435008 A1	20120404	EP20100722000	20100521
EP2435008 B1	20131023	EP20100722000	20100521
ES2443311 T3	20140218	ES20100722000T	20100521
IL216589 A0	20120301	IL20100216589	20100521
JP2012527907 T2	20121112	JP20120511201T	20100521
KR20120025545 A	20120315	KR20117030712	20100521
MX2011012509 A1	20120601	MX20110012509	20100521
US2012101414 AA	20120426	US20100322309	20100521
US9149407 BB	20151006	US20100322309	20100521
WO10136160 A1	20101202	WO2010EP03131	20100521

Priority:

DE200910022560 20090525 EP20100722000 20100521 WO2010EP03131 20100521

Probable Assignee: REHA TECHNOLOGIES GMBH

Assignee(s): (std): HESSE STEFAN ; REHA TECHNOLOGIES GMBH ; TOMELLERI CHRISTOPHER ; WALDNER JULIUS MICHAEL ; WALDNER RUPERT

Inventor(s): (std): MICHAEL WALDNER JULIUS ; RUPERT WALDNER ; STEFAN HESSE ; TOMELLERI CHRISTOPHER ; WALDNER JULIUS ; WALDNER JULIUS MICHAEL ; WALDNER RUPERT ; CHRISTOPHER TOMELLERI ; HESSE STEFAN

Inventor(s): JULIUS MICHAEL WALDNER

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; BORDEN LADNER GERVAIS LLP; MAIKOWSKI AND NINNEMANN PATENTANWAELTE; KILCHERT JOCHEN; ISERN JORGE; BROOKS KUSHMAN PC; KILCHERT JOCHEN ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE 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 IS IT JP KE KG KM KN KP KR KZ LA LC LI 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 PE PG PH PL PT RO RS RU 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

27) Family number: 45439615 (US2011275480A) © PatBase

Title: MUSCLE AND/OR JOINT EXERCISE APPARATUS

Abstract: An apparatus of muscle and/or joint exercise adapted to reeducation and/or physical conditioning of a body part of a user, including a hollow body; a mobile member translatable inside the body; a motor-driven means arranged on the bottom of the body and adapted for driving and decelerating in displacement the mobile member in both translatory directions; a cooperating means between the body and a frame, this cooperating means being arranged on the bottom of the body and including: at least one hinge of the body on the frame, the hinge providing at least at least one degree of rotational freedom for the body around an axis of rotation; and a removable means for installing and removing the body, the removable means being designed for removably installing the body on a base slidingly mounted in the frame.

Classifications:

International (IPC 8-9): A61H1/00 A61H1/02 A63B21/005

A63B24/00 A63B71/06 (Advanced/Invention);

A63B21/005 A63B24/00 (Core/Invention)

CPC: A63B21/0058 A63B24/0006 A63B24/0075 A63B71/0622

A63B2024/0012 A63B2071/0625 A63B2071/0655 A63B2220/10

A63B2220/20 A63B2220/24 A63B2220/30 A63B2220/40

A63B2220/51 A63B2220/54 A63B2220/62 A63B2220/72

A63B2220/74 A63B2220/75 A63B2225/20 A63B2225/50

A63B21/00181 A63B21/002

European: A63B21/005F A63B24/00A1 A63B24/00H A63B71/06D2

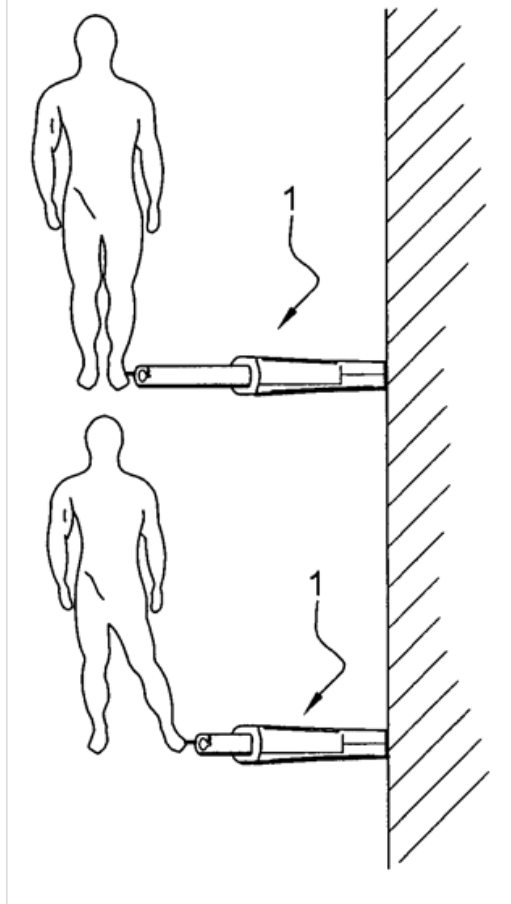
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K63B220/75 K63B225/20 K63B225/50 K63B24/00A1C

K63B71/06D2A K63B71/06D5

US: 482/4 482/4P 601/23 601/33 601/5

**Family:**

Publication number	Publication date	Application number	Application date
CA2746440 AA	20100617	CA20092746440	20091211
DE602009016106 D1	20130725	DE200960016106T	20091211
EP2370184 A2	201111005	EP20090802163	20091211
EP2370184 B1	20130529	EP20090802163	20091211
FR2939687 A1	20100618	FR20080058483	20081211
FR2939687 B1	20160415	FR20080058483	20081211
US2011275480 AA	20111110	US20090132668	20091211
US9005145 BB	20150414	US20090132668	20091211
WO10067034 A2	20100617	WO2009FR52489	20091211
WO10067034 A3	20100902	WO2009FR52489	20091211

Priority:

FR20080058483 20081211 EP20090802163 20091211 WO2009FR52489 20091211

Probable Assignee: CHAMPSAUR MARC

Assignee(s): (std): CHAMPSAUR MARC

Assignee(s): MARC CHAMPSAUR

Inventor(s): (std): CHAMPSAUR MARC

Inventor(s): MARC CHAMPSAUR

Agent(s): NORTON ROSE OR SENCRL SRL LLP; WITTE WELLER AND PARTNER PATENTANWAELTE MBB; CHEVALIER RENAUD PHILIPPE; CABINET GERMAIN ET MAUREAU; CANTOR COLBURN LLP; CABINET GERMAIN AND MAUREAU

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE 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 IS IT JP KE KG KM KN KP KR KZ LA LC LI 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 PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

28) Family number: 46863901 (US2012004581A)

© PatBase

Title: ROBOT MOTOR REHABILITATION DEVICE

Abstract: A robot rehabilitation device, especially suitable for being used in motor rehabilitation activities on patients suffering from neurological and/or orthopaedic damages of a various nature as well as motor rehabilitation on patients with a hip or knee prosthesis, including a portal structure fixed to a base structure, a motor-driven belt suitable for allowing patient to walk, a bodice basically provided with four straps or braces that can be hooked to the device structure and worn by the patient, for the support thereof, a first exoskeleton and a second exoskeleton articulated and independent for the passive and assisted movement of the lower limbs of the patient, the exoskeletons including automatic actuation and movement elements, with the rehabilitation device that further includes a device for lifting the patient for the automatic and continuous control of the amount of weight of the same to be used in the therapy.

Classifications:

International (IPC 8-9): A61H1/02 A61H3/00 (Advanced/Invention);

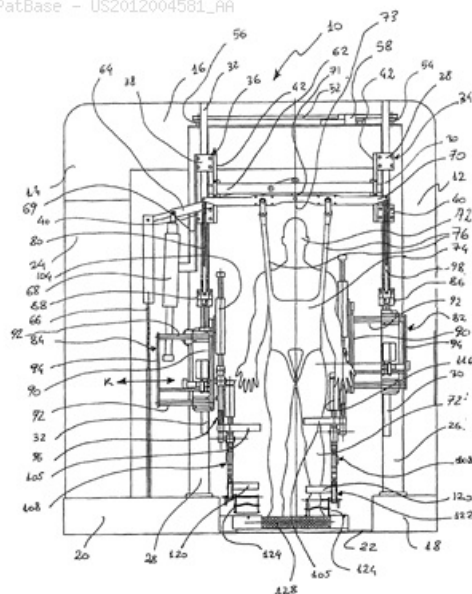
A61H1/02 A61H3/00 (Core/Invention)

CPC: A61H1/0255 A61H1/0266 A61H3/00 A61H2201/1215
A61H2201/123 A61H2201/1463 A61H2201/149 A61H2201/1621
A61H2201/163 A61H2201/164 A61H2201/1642 A61H2201/165
A61H2201/1676 A61H3/008 A61H1/0237 A61H1/0244

European: A61H1/02L A61H1/02L2 A61H3/00H

US: 601/23 601/23P

PatBase - US2012004581_AA



Family:

Publication number	Publication date	Application number	Application date
EP2408413 A1	20120125	EP20100708735	20100312
IT1393365 B1	20120420	IT2009MI00435	20090320
ITMI20090435 A1	20100921	IT2009MI00435	20090320
JP2012520699 T2	20120910	JP20120500122T	20100312
US2012004581 AA	20120105	US20100138617	20100312
WO10105773 A1	20100923	WO2010EP01569	20100312

Priority:

IT2009MI00435 20090320 WO2010EP01569 20100312

Probable Assignee: MPD SRL

Assignee(s): (std): DINON ; DINON PIERO ; M P D COSTRUZIONI MECCANICHE S ; M P D S R L

Assignee(s): MPD COSTRUZIONI MECCANICHE SRL ; MPD SRL ; M P D COSTRUZIONI MECCANICHE S R L

Inventor(s): (std): DINON PIERO

Agent(s): LECCE GIOVANNI

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE 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 IS IT JP KE KG KM KN KP KR KZ LA LC LI 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 PE PG PH PL PT RO RS RU 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

29) Family number: 49118572 (US2011152034A)

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Title: MACHINE FOR GYMNASTIC EXERCISES, PARTICULARLY FOR MUSCLE STRETCHING

Abstract: A machine for gymnastic exercises, particularly for muscle stretching, comprising a supporting frame, a seat which is fixed with respect to the supporting frame, and a back rest which is pivoted to the supporting frame for moving the back rest between a position which is substantially inclined with respect to the seat and a position which is substantially perpendicular with respect to the seat, the machine further comprising a carriage which is slidingly associated with the supporting frame and is functionally connected to the back rest by way of kinematic connection elements for transferring the motion of the carriage to the back rest and/or vice versa.

Classifications:

International (IPC 8-9): A61H1/02 A63B21/00

A63B23/035 (Advanced/Invention);

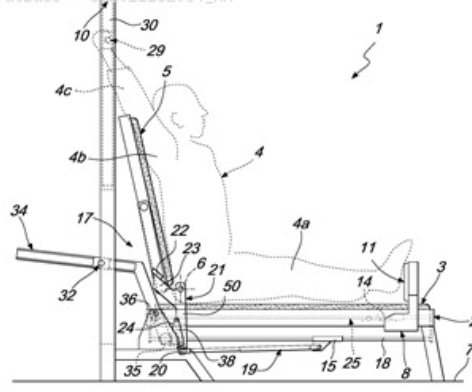
A63B23/00 (Advanced/Non-invention)

CPC: A61H1/0281 A61H1/0292 A61H2201/0161 A61H2203/0437
A61H2205/062 A63B2023/006

European: A61H1/02M2 A61H1/02N K61H201/01J K61H203/04E4
K61H205/06A K63B23/00B

US: 482/121 482/130 482/142 482/23 482/23P

PatBase - US2011152034_AA



Family:

Publication number	Publication date	Application number	Application date
EP2338458 A1	20110629	EP20100194796	20101213
EP2338458 B1	20170712	EP20100194796	20101213

ES2643220 T3	20171121	ES20100194796T	20101213
ITMI20092267 A1	20110623	IT2009MI02267	20091222
US2011152034 AA	20110623	US20100970669	20101216
US8216116 BB	20120710	US20100970669	20101216

Priority:

IT2009MI02267 20091222

Probable Assignee: CANALI VINCENZO

Assignee(s): (std): CANALI VINCENZO

Inventor(s): (std): CANALI VINCENZO

Agent(s): MODIANO MICAELA NADIA ET AL; MODIANO MICAELA NADIA; CURELL MIREIA; LANDO AND ANASTASI LLP

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

30) Family number: 50340223 (ES2370895A)

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Title: Exoesqueleto robotizado vestible para brazo humano. Wearable robotic exoskeleton for the human arm. (Machine translation)

Abstract: Source: ES2370895A [ES] La presente invencion se refiere a un exoesqueleto robotizado accionado por cables y mecanismos paralelos de reducido peso y volumen, permitiendo al usuario moverse comodamente y realizar terapias medicas, ayudas a la realizacion de fuerzas del tipo ortesico, actividades relacionadas con practicas deportivas o entrenamientos especializados que requieran secuencias de movimientos o ayuda para las tareas cotidianas.El sistema esta formado por un chaleco (8), al cual estan adosados el exo-brazo (2), el exo-antebrazo (3), una estructura de cinemática paralela del hombro que permite efectuar un seguimiento de los desplazamientos del hombro respecto al cuerpo, un sistema de compensacion del peso (4, 5) del conjunto articulado, accionamientos de potencia (6) que permiten mover de manera controlada el brazo articulado, un sistema de alimentacion autonomo y una unidad de control basada en computador (1) en la que residiran los procedimientos de control de movimiento, que pueden ser programados, tele-operados o coordinados.

Machine translation: The present invention relates to a robotic exoskeleton driven parallel mechanisms of cables and low weight and volume, allowing the user to move comfortably and perform medical therapies, support for the realization of orthotic-type forces, activities related to sports practices or requiring specialized training or movement sequences cotidianas.El homework help system consists of a vest (8), which are attached to the exo-arm (2), the exo-forearm (3), a kinematic structure allowing shoulder parallel to track the movement of the shoulder relative to the body, a weight compensation system (4, 5) of the articulated joint, power drives (6) which allow a controlled move the articulated arm, a system autonomous and feeding a control unit based computer (1) in which reside the movement control procedures, which can be programmed, tele-operated or coordinated.

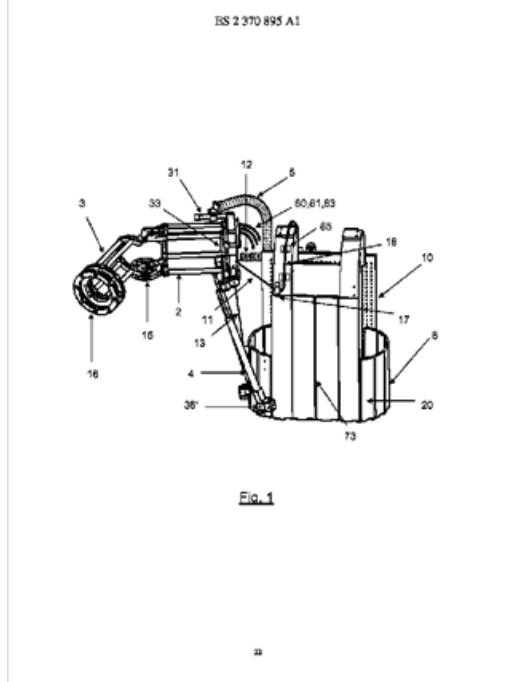
Classifications:

International (IPC 8-9): A61F5/01 A61H1/02

B25J9/00 (Advanced/Invention)

CPC: A61F5/013 A61H1/0274 B25J9/0006

PatBase - ES2370895_AA



Family:

Publication number	Publication date	Application number	Application date
ES2370895 AA	20111223	ES20110031435	20110831
ES2370895 BB	20120508	ES20110031435	20110831

Priority:

ES20110031435 20110831

Probable Assignee: UNIV MADRID POLITECNICA

Assignee(s): (std): UNIV MADRID POLITECNICA

Assignee(s): UNIVERSIDAD POLITECNICA DE MADRID

Inventor(s): (std): VARELA SANZ JESUS ; SALTAREN PAZMINO ROQUE JACINTO

Inventor(s): ROQUE JACINTO SALTAREN PAZMINO ; JESUS VARELA SANZ

Agent(s): CARVAJAL Y ISABEL

Title: MODULARES TRAININGSSYSTEM ZUR REHABILITATION VON PHYSIOLOGISCH BEEINTRÄCHTIGTEN PATIENTEN

Abstract: Source: DE102011052835A1 [DE] Die Erfindung betrifft ein modulares Trainingssystem (1) zur Rehabilitation von physiologisch beeinträchtigten Patienten (2) umfassend ein Basisgeräet (3), ein erstes Aufnahmemittel (6) fuer einen zu trainierenden Koerperteil mit zumindest einem Sensor (7) und/oder zumindest einem Aktor (8), welches mit dem Basisgeräet (3) ueber definierte Schnittstellen (9, 9') und uebertragungsstrecken (10, 10') verbunden ist und ueber definierte Datenprotokolle kommuniziert und zumindest ein weiteres Aufnahmemittel (6') mit zumindest einem Sensor (7') und/oder zumindest einem Aktor (8'). Wesentlich ist dabei, dass das weitere Aufnahmemittel (6') mit dem Basisgeräet (3) wahlweise oder gleichzeitig ueber die selben definierten Schnittstellen (9, 9') und uebertragungsstrecken (10, 10') verbindbar ist wie das erste Aufnahmemittel (6) und der zumindest eine Sensor (7') und/oder der zumindest eine Aktor (8') des weiteren Aufnahmemittels (6') ueber die selben Datenprotokolle abfragbar bzw. ansteuerbar sind wie der zumindest eine Sensor (7) und/oder der zumindest eine Aktor (8) des ersten Aufnahmemittels (6). Dadurch ist ein modulares Trainingssystem (1) geschaffen, welches auf universelle und kostenguenstige Weise uebungsprogramme fuer alle unterschiedlichen Koerperbereiche ermoeoglicht und die Wirtschaftlichkeit der Herstellung solcher Trainingssysteme erhoehrt.

Classifications:

International (IPC 8-9): A61B19/00 A61B5/00 A61H1/00 A61H1/02 A63B23/035 A63B24/00 G06F19/00 G09B5/14 (Advanced/Invention)

CPC: A63B21/00178 A61H1/024 A61H1/0244 A61H1/0277

A61H1/0281 A61H2201/0107 A61H2201/1238 A61H2201/1261

A61H2201/1647 A61H2201/165 A61H2201/5012 A61H2201/502

A61H2201/5061 A61H2201/5064 A61H2201/5084 A61H2201/5094

A61H2201/5097 A61H2230/06 A61H2230/207 A61H2230/30

A61H2230/50 A61H2230/60 A63B21/00181 A63B21/0085

A63B21/4039 A63B21/4047 A63B23/0494 A63B23/1245

A63B23/1281 A63B2071/0655 A63B2220/10 A63B2220/13

A63B2220/40 A63B2220/51 A63B2220/806 A63B2225/15

A63B2225/20 A63B2225/50 A63B2230/06 A63B2230/207

A63B2230/30 A63B2230/50 A63B2230/60 A63B23/0355

A63B23/1209

European: A61H1/02L1 A61H1/02L2 A61H1/02M1 A61H1/02M2

A63B21/008C A63B21/00P A63B21/00T A63B21/14M6 A63B23/04K

A63B23/12D A63B23/12K K61H201/01B K61H201/12C

K61H201/12D2 K61H201/16A18A K61H201/16A20 K61H201/50C2B

K61H201/50E K61H201/50S16 K61H201/50S2 K61H201/50S22A

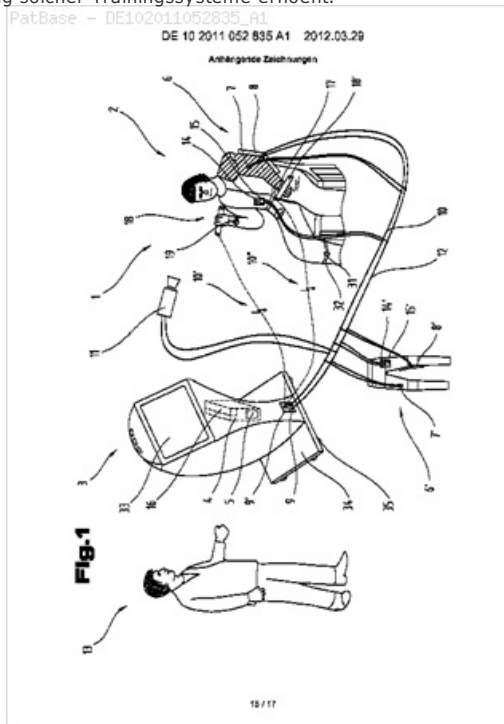
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K63B220/13 K63B220/40 K63B220/51 K63B220/80F K63B225/15

K63B225/20 K63B225/50 K63B230/06 K63B230/20D K63B230/30

K63B230/50 K63B230/60 K63B71/06D5



Family:

Publication number	Publication date	Application number	Application date
AT510363 A2	20120315	AT20100001400	20100823
CH703610 A2	20120229	CH20110001357	20110818
CH703610 B1	20150715	CH20110001357	20110818
DE102011052835 A1	20120329	DE201110052835	20110819

Priority:

AT20100001400 20100823

Probable Assignee: KEBA AG

Assignee(s): (std): KEBA AG

Inventor(s): (std): LINDE THOMAS ; LINDE THOMAS DIPL ING

Inventor(s): LINDE THOMAS DIPLING ; THOMAS LINDE

Title: FUNCTIONAL MOBILIZATION DEVICE I.E. HEAD OR PELVIS SUPPORT ASSEMBLY, FOR THERAPY DEVICE IN MASSAGE BENCH FOR MANUAL MASSAGE THERAPY FOR PATIENT, HAS SUPPORT ELEMENT SET WITH RESPECT TO POINT OUTSIDE PERIPHERY OF IMAGINARY SPHERICAL SURFACES

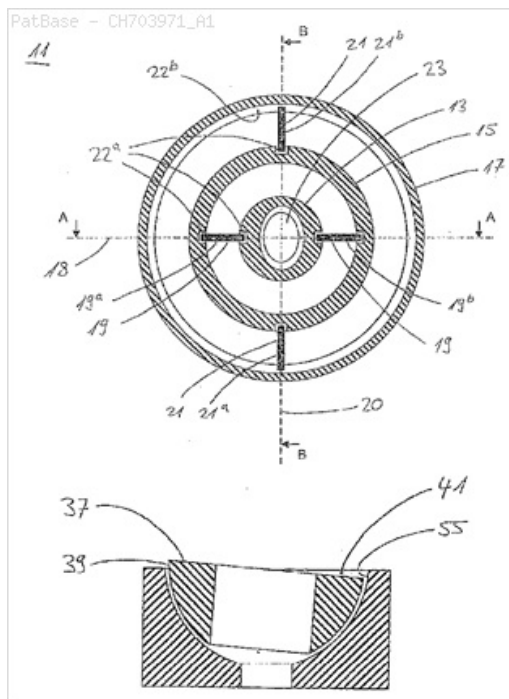
Abstract: The device (11) has a central support element (13) with a support surface for supporting a body part e.g. head and pelvis. A support element (17) carries the central support element that is rotatable around a point at a three axle. All points of the central support element is moved on imaginary spherical surfaces and concentric to the point. The support element is set with respect to the point outside a periphery of the imaginary spherical surfaces. A locking unit adjusts maximally permissible movement amplitudes.

Classifications:

International (IPC 8-9): A61G7/07 A61H37/00 (Advanced/Invention)

CPC: A61G13/009 F16C11/0623 F16C11/106 F16M11/123 F16M11/205

European: A61G13/00M F16M11/12A1 F16M11/20A3A1



Family:

Publication number	Publication date	Application number	Application date
CH703971 A1	20120430	CH20100001805	20101029

Priority:

CH20100001805 20101029

Probable Assignee:

PETER DANIEL

Assignee(s): (std):

PETER DANIEL

Assignee(s):

DANIEL PETER

Inventor(s): (std):

PETER DANIEL

Inventor(s):

DANIEL PETER

33) Family number: 55665133 (W014012961A1)

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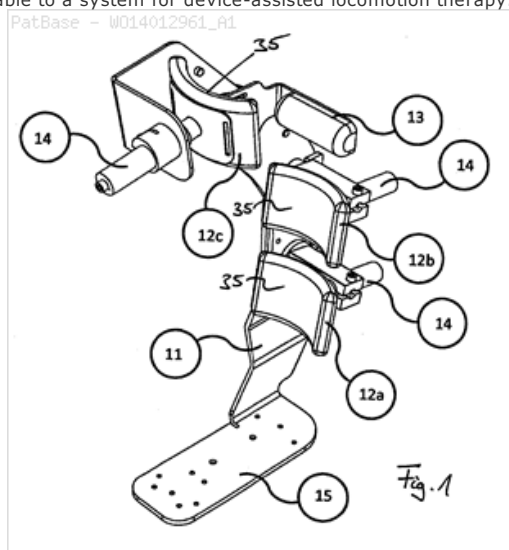
Title: DEVICE FOR THERAPEUTIC TREATMENT AND SYSTEM FOR DEVICE-ASSISTED LOCOMOTION THERAPY WITH SUCH A DEVICE

Abstract: The invention relates to a device for therapeutic treatment of the lower extremities of a person, the device having a frame (11) which extends during usage along one of the lower extremities, wherein a flexion means (13) for the knee joint is fixed to the frame (11). At least one retaining means for the upper leg and at least one retaining means for the lower leg are each connected by a movement element to the frame (11). The retaining means for the upper leg and the lower leg are offset in the longitudinal direction of the frame and are arranged opposite one another in such a manner that the leg can be fixed between the retaining means during usage, the flexion means (13) is arranged in the longitudinal direction of the frame between the retaining means in such a manner that the flexion means (13) is arranged during usage in the area of the hollow of the knee, the movement element is adapted for generating a force which can be transmitted during usage by the respective retaining means to the leg, and the frame (11) is connectable to a system for device-assisted locomotion therapy.

Classifications:

International (IPC 8-9): A61H1/02 (Advanced/Invention)

CPC: A61H1/024 A61H1/0262 A61H2201/1642 A61H2201/165



Family:

Publication number	Publication date	Application number	Application date
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DE102012106428 A1	20140123	DE201210106428	20120717
EP2903580 A1	20150812	EP20130774615	20130717
WO14012961 A1	20140123	WO2013EP65065	20130717

Priority:

DE201210106428 20120717 WO2013EP65065 20130717

Probable Assignee: REHA TECHNOLOGY GMBH

Assignee(s): (std): REHA TECHNOLOGY GMBH

Inventor(s): (std): MARZARI ANDREA ; TOMELLERI CHRISTOPHER ; WALDNER JULIUS MICHAEL ; WALDNER RUPERT DR

Inventor(s): DIE ERFINDERNENNUNG LIEGT NOCH NICHT VOR

Agent(s): KILCHERT JOCHEN

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 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 IS IT JP KE KG KM KN KP KR KZ LA LC LI 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 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

34) Family number: 57353650 (AR089069A)

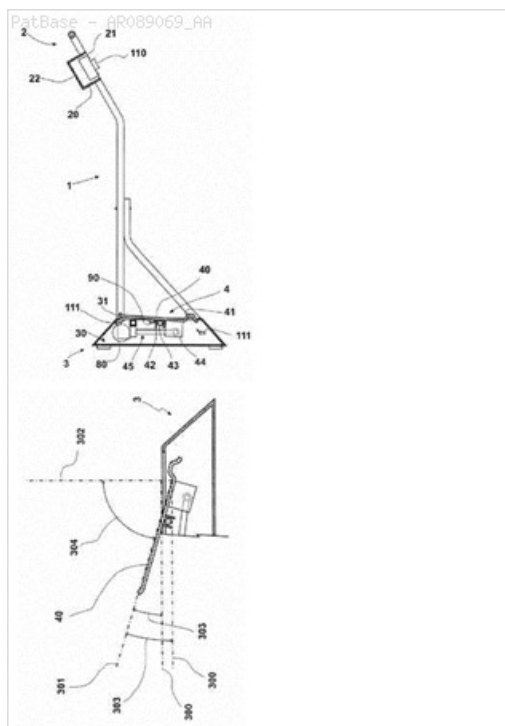
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Title: DISPOSITIVO DE PISO CONTROLADO PARA EL TRATAMIENTO DE EXTREMIDADES INFERIORES Y METODO DE UTILIZACION DE DICHO DISPOSITIVO FLOOR CONTROLLED DEVICE FOR TREATMENT OF LOWER LIMBS AND METHOD OF USING SAID DEVICE (Machine translation)

Abstract: Source: AR089069A [ES] Dispositivo de piso controlado para el tratamiento de extremidades inferiores y metodo de utilizacion de dicho dispositivo. Este dispositivo comprende una estructura soporte (1) en cuya parte inferior (3) hay una plataforma movil (4) giratoria, sobre cuyo piso (40) apoyan los pies (200) del paciente en posiciones preestablecidas (47) contra un tope de apoyo (41); mediante uno o mas pulsadores inversores (110) se aumenta o disminuye la inclinacion de la plataforma movil (4) y, por tanto, la dorsiflexion de los pies (200); esto se controla mediante el indicador de inclinacion (100) cuyos datos provienen del sensor de inclinacion (90) de la citada plataforma (4). La presente tambien se refiere al metodo de utilizacion del dispositivo, el que comprende una serie de pasos en los que el profesional actuante posiciona (47) al paciente sobre el piso (40), presiona el pulsador inversor (110) y controla la inclinacion (301) de la plataforma movil (4) observando los datos del indicador de inclinacion (100), hasta alcanzar la inclinacion (303) buscada y producir la dorsiflexion de los pies del paciente (200). **Machine translation:** Floor controlled device for the treatment of lower extremities and method of use of the device. This device comprises a support (1) in the lower part (3) there is a revolving structure mobile platform (4), on whose floor (40) supporting the feet (200) of the patient at preset positions (47) against a backstop (41); using one or more inverters buttons (110) increases or decreases the inclination of the mobile platform (4) and, therefore, the dorsiflexion of the foot (200); this is controlled by the slope indicator (100) whose data come from the said platform tilt sensor (90) (4). This also relates to the method of utilization of the device, which comprises a series of steps in which the acting professional positions (47) the patient on the floor (40), press the inverter switch (110) and controls the inclination (301) of the mobile platform (4) observing the slope indicator data (100) to reach the inclination (303) sought to produce dorsiflexion of the feet of the patient (200).

Classifications:

International (IPC 8-9): A61H1/02 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
AR089069 AA	20140730	AR2012P104540	20121203

Priority:

AR2012P104540 20121203

Probable Assignee:

LEIKIJ ENRIQUE

Assignee(s): (std):

LEIKIJ ENRIQUE

Inventor(s): (std):

ENRIQUE LEIKIJ

Title: APPARATUS AND METHOD TO PERFORM WATER MOTOR ACTIVITY EXERCISES

Abstract: A gymnastic-rehabilitation apparatus for performance of motor activity exercises by a user, comprising: containing means (2) arranged for containing a liquid (L), in particular an aqueous solution, and for receiving the user and enabling movements thereof; a supporting element (3; 103; 203) that is positionable above the containing means (2); at least one gymnastic-rehabilitation equipment (10, 30; 110, 130) fixed to connecting means (18, 19) of the supporting element (3; 103; 203) and movable between a respective operating configuration (W1, W2), in which said equipment (10, 30; 110, 130) is inserted in the containing means (2) and immersed in the liquid (L), at least partially, to enable the user to perform motor activity exercises, and a folded configuration (N1, N2), in which said equipment (10, 30; 110, 130) is extracted from the liquid (L) and spaced apart from the containing means (2) so as not to obstruct the latter; the supporting element (3; 103; 203) comprises an internal compartment (6; 106; 206), open at the bottom, within which the connecting means (18, 19) are fixed and which is arranged to accommodate and contain within it said equipment (10, 30; 110, 130) in the respective folded configuration (N1, N2).

Classifications:

International (IPC 8-9): A61H15/00 A61H7/00 A63B23/00

A63B69/08 A63B69/18 (Advanced/Invention)

CPC: A63B2208/03 A63B2225/60 A63B17/00 A61H2033/048

A63B7/00 A63B22/0076 A63B22/0605 A63B2210/50 A63B2220/70

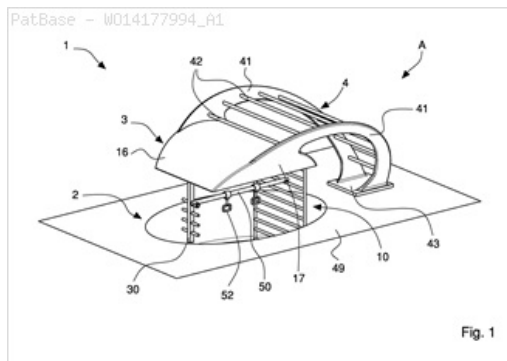


Fig. 1

Family:

Publication number	Publication date	Application number	Application date
ITMO20130116 A1	20141031	IT2013MO00116	20130430
WO14177994 A1	20141106	WO2014IB61060	20140428

Priority:

IT2013MO00116 20130430

Probable Assignee: CALLONI CRISTINA

Assignee(s): (std): CALLONI CRISTINA ; CERINA ANGELO

Inventor(s): (std): CALLONI CRISTINA ; CERINA ANGELO

Agent(s): CICONETTI ANDREA

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 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 JP KE KG KM KN KP KR 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

Title: MOVEMENT AND THERAPY DEVICE AND THERAPY METHOD FOR THE CURATIVE TREATMENT AND PREVENTION OF PAINFUL CONDITIONS OF THE LOCOMOTOR SYSTEM OF A PERSON

Abstract: The invention relates to a movement and therapy device and to a therapy method for the curative treatment and prevention of painful conditions in the locomotor system of a person. The invention relates to a movement and therapy device for the curative treatment and prevention of painful conditions of the locomotor system of a person, comprising a lying surface for a person to lie upon; a crank apparatus, which can be operated by the person lying on the lying surface by means of the feet of the person and/or, in the reversed lying position, by means of the hands of the person, wherein the crank apparatus has at least one fixing apparatus for fixing a foot or a hand of one of the extremities of the person; a frame, on which the crank apparatus is arranged or can be fastened above the lying surface in such a way that the crank apparatus can be operated by the person lying on the lying surface by means of the feet of the person and/or, in the reversed lying position, by means of the hands of the person, wherein traction of the at least one extremity fixed on the crank apparatus by the fixing apparatus is produced when the crank apparatus is operated.

Classifications:

International (IPC 8-9): A61H1/02 A61H23/00 A63B21/00

A63B21/005 A63B22/00 A63B22/06 A63B22/08

A63B71/00 (Advanced/Invention)

CPC: A63B22/0694 A61H1/0214 A63B21/00178 A63B21/0058

A63B22/0002 A63B22/0007 A63B22/001 A63B22/0012 A63B22/0605

A63B71/0036 A63B2208/0204 A63B2208/0233 A63B2208/0238

A63B2208/0252 A63B2210/04 A63B2210/50 A63B2225/09

A63B2225/093 A63B21/4015 A63B21/4019 A63B21/4033

A63B22/0005 A61H1/0237 A61H1/0274 A61H15/0078

A61H2015/0014 A61H2201/0138 A61H2201/10 A61H2201/1215

A61H2201/1685 A61H2201/1695 A61H2205/106 A63B2213/004

A61N1/0408 A61N1/0452 A61N1/0472

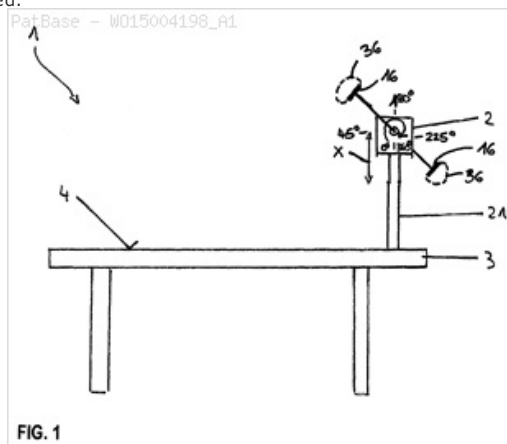


FIG. 1

Family:

Publication number	Publication date	Application number	Application date
DE102013213562 A1	20150115	DE201310213562	20130711
EP3019250 A1	20160518	EP20140739766	20140709
WO15004198 A1	20150115	WO2014EP64739	20140709

Priority:

DE201310213562 20130711 WO2014EP64739 20140709

Probable Assignee: SCHIANO ROSARIO

Assignee(s): (std): SCHIANO ROSARIO

Inventor(s): (std): SCHIANO ROSARIO

Agent(s): ISARPATENT; HASSA OLIVER

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 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 JP KE KG KM KN KP KR KZ LA LC LI 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

37) Family number: 60275765 (ES2544890B)

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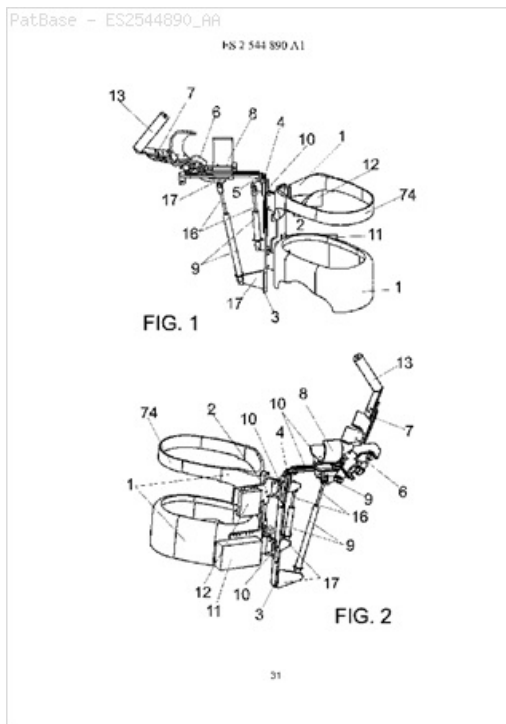
Title: EXOESQUELETO ROBOTIZADO CON SOPORTE DE CODO DESLIZANTE AUTOAJUSTABLE PARA BRAZO HUMANO

Abstract: Source: ES2544890B [ES] Exoesqueleto robotizado con soporte de codo deslizante autoajustable para brazo humano. #La invencion se refiere a un exoesqueleto robotizado que permite al usuario moverse comodamente y realizar terapias medicas, fuerzas del tipo ortesico asistidas, actividades relacionadas con practicas deportivas o entrenamientos especializados que requieran secuencias de movimientos, tareas cotidianas, o servicios de bomberos, policia, militares, etc. asistidos en fuerza por el exo-esqueleto. #El sistema esta formado por un chaleco (1), al cual estan adosados el exo-brazo (8), el exo-antebrazo (7), una estructura de soporte (2, 3, 4, 5), con partes deslizantes (5, 31) y bisagras (10) actuados, que permite efectuar un seguimiento de los desplazamientos del hombro respecto al cuerpo y ofrece un solido punto de apoyo movil ademas de un sistema pasivo de compensacion del peso mediante husillos (22), con actuadores de potencia (9) que permiten mover de manera controlada el brazo articulado. El dispositivo comprende igualmente un sistema de alimentacion (11) autonomo y una unidad de control.

Classifications:

International (IPC 8-9): A61F5/01 A61H1/02 B25J9/00 (Advanced/Invention)

CPC: B25J9/0006 A61F5/013 A61H1/0274



Family:

Publication number	Publication date	Application number	Application date
ES2544890 AA	20150904	ES20140030287	20140304
ES2544890 BB	20160509	ES20140030287	20140304

Priority:

ES20140030287 20140304

Probable Assignee: UNIV MADRID POLITECNICA

Assignee(s): (std): UNIV MADRID POLITECNICA

Assignee(s): UNIVERSIDAD POLITECNICA DE MADRID

Inventor(s): (std): LOPEZ LOPEZ JAVIER ; SALTAREN PAZMINO ROQUE ; VARELA SANZ JESUS

Inventor(s): ROQUE SALTAREN PAZMINO ; JAVIER LOPEZ LOPEZ ; JESUS VARELA SANZ

Agent(s): CARVAJAL Y ISABEL

38) Family number: 60352289 (DE202015104230U1)

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Title: THERAPIE-TRAININGS-GERAET

Abstract: Source: DE202015104230U1 [DE] Therapie-Trainings-Geraet, mit – wenigstens einem Grundgestell (1), – wenigstens einem der folgenden weiteren Module: – wenigstens eine Sitzflaeche (2), – wenigstens ein Rueckengestell (20), insbesondere mit einer Rueckenlehne (3), – wenigstens ein Beingestell (30), – wenigstens ein Armgestell (40), wobei das Modul an dem gleichen (1) oder einem separaten Grundgestell mittels einer Bewegungsvorrichtung (50) beweglich, insbesondere verschiebbar und/oder verschwenkbar, befestigt ist. (Sitzflaeche)

Classifications:

International (IPC 8-9): A61H1/00 A61H1/02 A61H15/00

A63B23/02 (Advanced/Invention)

CPC: A63B21/00069 A63B23/0233 A63B2208/0233 A63B2208/0242

A63B2225/09 A63B21/0085 A63B21/00072 A63B21/0058

A63B21/0083 A63B21/0087 A63B21/012 A63B21/068 A63B21/4045

A63B21/4049 A63B23/03525 A63B69/0057 A63B2022/0623

A63B2069/0062 A63B2210/50 A63B2225/093 A63B21/023

A63B21/4047 A61H2015/0021 A61H2201/1623 A63B21/4034

A63B21/4035 A63B23/0211 A61H2201/1261 A61H2201/1669

A61H2203/0425 A61H15/00 A61H2201/1635 A63B22/0605

A63B21/008 A63B23/03508 A63B23/03541 A63B23/0405

A63B21/4033 A63B23/03575

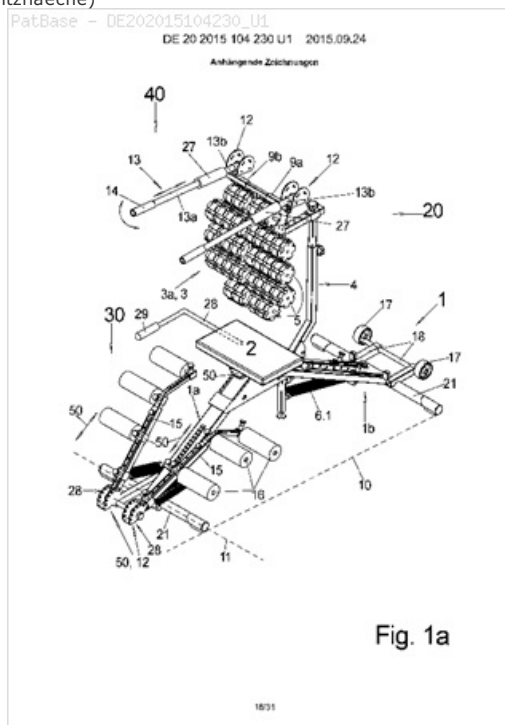


Fig. 1a

Family:

Publication number	Publication date	Application number	Application date
DE102015113113 A1	20170216	DE201510113113	20150810
DE202015104230 U1	20150924	DE201520104230U	20150810

Priority:

DE201510113113 20150810 DE201520104230U 20150810

Probable Assignee:

OLARU NICOLAE

Assignee(s): (std):

OLARU NICOLAE

Assignee(s):

OLARU

Inventor(s): (std):

OLARU NICOLAE

39) Family number: 61194453 (BR102012033794A)

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Title: ANDADOR FUNCIONAL COM APOIO AXILAR AJUSTAVEL AO TRONCO DO USUARIO ANDADOR FUNCTIONAL SUPPORT WITH ADJUSTABLE AXILLARY THE TRUNK USER (Machine translation)

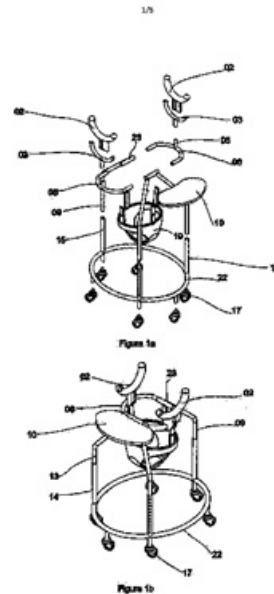
Abstract: Source: BR102012033794A [PT] 1 RESUMO Andador Funcional com Apoio Axilar Ajustavel ao Tronco do Usuario e um treinador e/ou auxiliar de marcha para crianas e jovens com dificuldade na marcha independentese refere area de equipamentos para auxilio e treinamento da 5 marcha com o objetivo de dar continuidade ao tratamento de reabilitacao fisioterapica. OAndador Funcional com Apoio Axilar ajustavel ao tronco do usuario e manufaturado em perfis estruturais tubulares, que podem ser de materiais como acos, aluminio, ligas metalicas, plasticos, materiais compostos ou materiais similares moldados e/ou soldado. Essa estrutura tubular do equipamento e construida em duas partes, sendo 10 parte superior composta pelos apoios axilares (02), arco superior (06) e hastes superiores (09,13) e parte inferior composta pelos pilares inferiores (14, 15) e arco inferior (22) equipado com seis rodas giratoria (17), distribuida em angulacao ideal para o equilibrio quando em movimento ou parado. Essas estruturas sao desmontaveis para facilitar transporte, bem como, permitir regulagem de altura para 15 posicionamento do tronco pelos apoios axilares ajustaveis. **Machine translation:** 1 SUMMARY Walker Functional with support Axillary Adjustable to User trunk and a coach and / or walking aid for children and young people with difficulty in independentese march refers area of equipment for assistance and training 5 march in order to continue the treatment of physical therapy rehabilitation. OAndador Funcional with support Axillary adjustable to User trunk and manufactured in tubular structural shapes, which can be materials such as steels, aluminum, metallic alloys, plastics, composite materials or shaped like materials and / or welded. This tubular structure of the equipment is constructed in two parts, upper part 10 composed of the underarm support (02), the upper arch (06) and upper arms (09,13) and lower part composed of the lower pillars (14, 15) and arc lower (22) equipped with six revolving wheels (17), distributed in ideal angle for balance when moving or stationary. These structures can be removed to facilitate transport and allow height adjustment to 15 positioning of the trunk by adjustable underarm support.

Classifications:

International (IPC 8-9): A47D13/04 A61G5/02

A61H3/04 (Advanced/Invention)

CPC: A61H3/04 A47D13/04 A61G5/02

**Family:**

Publication number	Publication date	Application number	Application date
BR102012033794 A2	20151201	BR20121033794	20121218

Priority:

BR20121033794 20121218

Probable Assignee:

REABILITECH COMERCIO LTDA

Assignee(s): (std):

REABILITECH COMERCIO LTDA

Inventor(s): (std):

ABUJAMRA RAFAEL CARAM ; BOTEGA RENAN

Inventor(s):

RAFAEL CARAM ABUJAMRA ; RENAN BOTEGA

40) Family number: 61386977 (US2016008203A)

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Title: DEVICE FOR SPINE CORRECTION AND MEASUREMENT SYSTEM

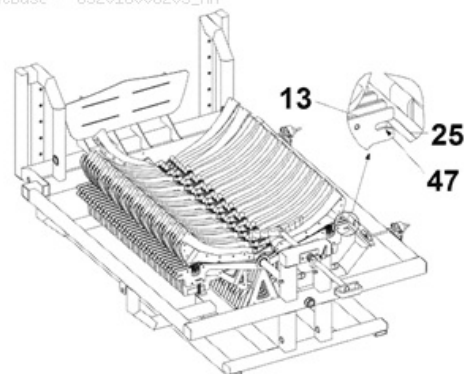
Abstract: A device for spine correction, in a particular human spines, has a keyboard with numerous adjacent segments comprised of opposed back supports. The keyboard (3) has at least one set of cooperating segments A, B and C supported on curved arch elements which bias a patient back in engagement with the keyboard toward a desired back configuration. The device includes a support frame (1), and a relatively movable mobile frame (2) on which the keyboard is supported. A measurement system includes a controller (49), a server (50) and a screen (51). The controller is connected to sensors (26) which determine rotational positions of the segments. The server provides outputs from the screen (51) responsive to the sensed data.

Classifications:

International (IPC 8-9): A61F5/00 A61F5/045 A61H1/00
A63B21/00 (Advanced/Invention)

CPC: A61H1/003 A61H1/008 A61H2201/1623 A61H2201/1676
A61H2201/5007 A61H2201/5061 A61H2201/5069 A61H2203/045
A61H2203/0456 A61H2205/081

US: 601/24

**Family:**

Publication number	Publication date	Application number	Application date
EP2974709 A1	20160120	EP20150460003	20150130
PL408841 A1	20160118	PL20140408841	20140714
US2016008203 AA	20160114	US20150641050	20150306
US9949884 BB	20180424	US20150641050	20150306

Priority:

PL20140408841 20140714

Probable Assignee: BIOMORPH SP Z O O**Assignee(s):** (std): BIO MORPH SP Z O O ; BIO MORPH SPOLKA Z OGRANICZONA ODPOWIEDZIALNOSCIA

Assignee(s): BIOMORPH SP Z OO ; BIOMORPH SPOLKA Z OGRANICZONA ODPOWIEDZIALNOSCIA ; BIOMORPH SPZ OO

Inventor(s): (std): KACZMAREK WOJCIECH ; KAMINSKI GRZEGORZ ; MIANOWSKI KRZYSZTOF LUDWIK ; ROSOLEK RAFAL ; STANCZUK MARCIN

Agent(s): RZAZEWSKA DOROTA; WALKER AND JOCKE; RALPH 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

41) Family number: 65764245 (WO17174871A1) © PatBase

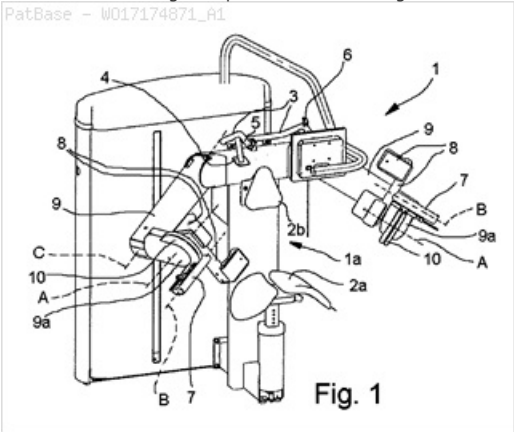
Title: REHABILITATION DEVICE AND ITS USE FOR EXERCISING THE SHOULDER REGION

Abstract: The present invention relates to a rehabilitation device (1) adapted for rehabilitating and/or exercising the shoulder region, as well as to the use of such a rehabilitation device. The device has a frame (1a), in connection with which are arranged support elements (2a, 2b) enabling the upright position of the upper body during the exercise, shoulder supports (4) holding the shoulder position of the user stationary during the exercise, pivot elements (10) arranged to the ends of elongated shaft portions (9) arranged on both sides of the vertical midline (L) of the frame (1a), motion shafts (7) arranged in connection with the pivot elements (10), and elbow supports (8) attaching to the end of each motion shaft (7), wherein the motion shafts (7) and elbow supports (8) are movable by the pivot elements (10). The angle (beta) between the imaginary extension, extending towards frame (1a), of the pivot axis (A) of each pivot element (10) and the imaginary extension of the transverse midline (H) perpendicular in relation to the vertical direction of the frame is 60 degrees + 5 degrees, and the angle (alpha) between the imaginary extension, extending towards frame (1a), of the pivot axis (A) of each pivot element (10) and the plane travelling through the midline (L) of the frame is 60 degrees plus or minus 5 degrees.

Classifications:

International (IPC 8-9): A61H1/02 A63B23/12 (Advanced/Invention)

CPC: A61H1/02 A63B21/005 A63B21/008 A63B21/0628
A63B2022/0094 A63B2220/16 A63B2225/093 A63B2225/54



Family:

Publication number	Publication date	Application number	Application date
FI126770 B	20170515	FI20160005284	20160404
FI20165284 A	20170515	FI20160005284	20160404
WO17174871 A1	20171012	WO2017FI50235	20170403

Priority:

FI20160005284 20160404

Probable Assignee: DAVID HEALTH SOLUTIONS LTD

Assignee(s): (std): DAVID HEALTH SOLUTIONS LTD

Inventor(s): (std): TUONONEN JAAKKO ; PARVIAINEN ARNO ; HAUTAMAEMI JOHANNES

Agent(s): LEITZINGER OY

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 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

42) Family number: 66793189 (WO18036571A1) © PatBase

Title: ROBOTIC ORTHOSES FOR HAND AND WRIST REHABILITATION

Abstract: The robotic orthoses for rehabilitation of the hand and the wrist are a group of robotic orthoses designed for the passive and active rehabilitation of the fingers and the wrist, which consist in: A skin-orthosis interface formed by leather and neoprene parts to protect the patient's skin; a passive orthosis interface made of metal parts to couple the exoskeleton to the patient's wrist, fixed acrylic parts that act as a base for the structure, and mobile acrylic parts articulated by metal shafts to transmit movement to the hand and the wrist; an active orthosis interface made of servomotors that transmit movement to the mobile acrylic parts, reproducing 7 degrees of freedom to the movement of the hand and the wrist; and an electronic control module consisting of a switch-mode power supply, electronic boards and LED indicators.

Classifications:

International (IPC 8-9): A61B5/103 A61F2/42 A61F5/00 A61F5/01

A61F5/042 A61H1/00 A63B21/00 A63B23/00 A63B23/16

A63B24/00 (Advanced/Invention)

CPC: A61F5/00 A61F5/01 A61H1/00 A63B21/00 A63B23/00
A63B23/16 A63B24/00

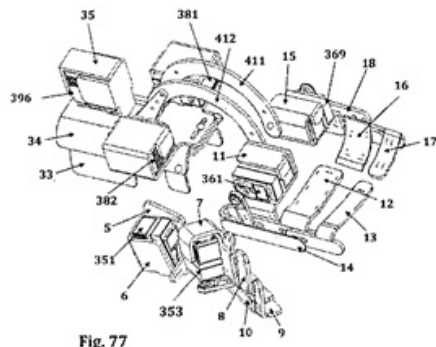


Fig. 77

Family:

Publication number	Publication date	Application number	Application date
CO20160001196 A1	20170609	CO20160001196	20160825
CO20170005434 A1	20171130	CO20170005434	20170530
WO18036571 A1	20180301	WO2017C000006	20170810

Priority:

CO20160001196 20160825 CO20170005434 20170530

Probable Assignee: MORENO ARANGO JUAN DAVID**Assignee(s):** (std): MORENO ARANGO JUAN DAVID ; MORENO ARANGO JULIAN ALBERTO**Assignee(s):** JUAN DAVID MORENO ARANGO ; JULIAN ALBERTO MORENO ARANGO**Inventor(s):** (std): MORENO ARANGO JUAN DAVID ; MORENO ARANGO JULIAN ALBERTO**Inventor(s):** JUAN DAVID MORENO ARANGO ; JULIAN ALBERTO MORENO ARANGO**Agent(s):** MORENO ARANGO JUAN DAVID

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

43) Family number: 67287390 (CO20170008914A)

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Title: APARATO TRANSPORTABLE DE FISIOTERAPIA ASISTIDA PARA MOVILIZACION Y REHABILITACION DE SUJETOS EXPUESTOS A REPOSO PROLONGADO TRANSPORTABLE APPARATUS OF physiotherapy for mobilization and assisted rehabilitation of subjects exposed to prolonged standing (Machine translation)

Classifications:**International (IPC 8-9):** A61H1/00 A61H1/02 (Advanced/Invention)

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La Figura 6 ilustra el despiece del brazo móvil (102) del aparato transportable (100) de fisioterapia asistida para movilización y rehabilitación de sujetos expuestos a reposo prolongado.

La Figura 7 muestra el sostén articulado (103) de extremidad inferior del aparato transportable (100) de fisioterapia asistida para movilización y rehabilitación de sujetos expuestos a reposo prolongado.

La Figura 8 ilustra el despiece del sostén articulado (103) de extremidad inferior del aparato transportable (100) de fisioterapia asistida para movilización y rehabilitación de sujetos expuestos a reposo prolongado.

DESCRIPCIÓN DETALLADA DE LA INVENCIÓN

La presente invención está relacionada con los aparatos de asistencia médica, en particular de fisioterapia y asistencia al momento de movilizar las extremidades inferiores de un paciente humano.

El aparato transportable (100) para la asistencia en la movilización y rehabilitación de sujetos expuestos a reposo prolongado, ilustrado en la Figura 1, cuenta con una estructura de soporte (101) que reposa sobre el suelo; comprende además por lo menos un brazo móvil (102), en donde de cada brazo (102) cuelga un sostén articulado (103) de extremidad inferior humana, en donde dicho sostén articulado (103) puede comprender elementos que vibran por medio de una alimentación eléctrica.

Tal como se representa en las Figuras 2, 3 y 4, la estructura de soporte (101) comprende un esqueleto estructural (20) al que van acoplados por lo menos dos esqueletos laterales (21) (22), en donde a cada uno de dichos esqueletos (21) (22) se puede acoplar uno o varios compartimentos (28) y una o varias mesas auxiliares (27). En una modalidad de la invención, la estructura de soporte (101) puede disponer de paredes de protección (25) externas en cualquiera de los esqueletos laterales (21)

Continúa Hoja 01 - Versión 1

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