

1) Family number: 67839446 (US2019160331A)

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Title: TRAINING DEVICE FOR SIMULATING VERTICAL CLIMBING

Abstract: A vertical climbing simulation equipment that has an intensity regulation system that allows the resistance of the routines carried out in it, to be graduated and that also has a mechanism that allows to vary the angle of inclination of its pedals in order to be coupled to the natural angle of the user's ankles.

Classifications:

International (IPC 8-9): A63B21/00 A63B21/008 A63B21/08

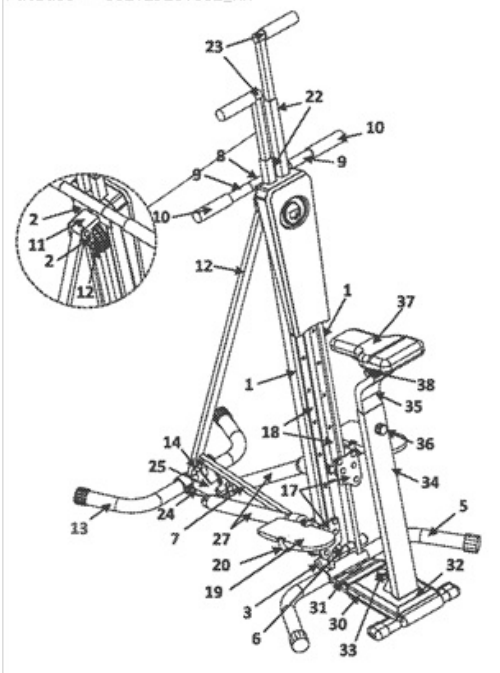
A63B22/00 A63B22/12 A63B23/035 A63B23/04 A63B23/12

A63B69/00 (Advanced/Invention)

CPC: A63B69/0048 A63B23/03591 A63B21/4033 A63B2208/0228

A63B21/4045 A63B21/008

PatBase - US2019160331_AA



Family:

Publication number	Publication date	Application number	Application date
AU2019200132 AA	20190131	AU20190200132	20190110
CA3030702 AA	20190111	CA20173030702	20170608
CO20190000066 A2	20190118	CO20190000066	20190104
EP3470121 A1	20190417	EP20170810610	20170608
KR20190027816 A	20190315	KR20197000813	20170608
US2019160331 AA	20190530	US20170308563	20170608
UY4650 U	20180131	UY20170004650U	20170609
WO17213488 A1	20171214	WO2017MX50008	20170608

Priority:

MX20160000238U 20160610 WO2017MX50008 20170608 AU20190200132 20190110

Probable Assignee: MERCENARI URIBE FERNANDO HUMBERTO

Assignee(s): (std): MERCENARI URIBE FERNANDO HUMBERTO

Inventor(s): (std): MERCENARI URIBE FERNANDO HUMBERTO

Agent(s): WRAYS PTY LTD; MOFFAT AND CO; ABG INTELLECTUAL PROPERTY LAW SL; ALVAREZ DE LUCIO BEATRIZ ET AL

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 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

2) Family number: 28064294 (US2003030397A)

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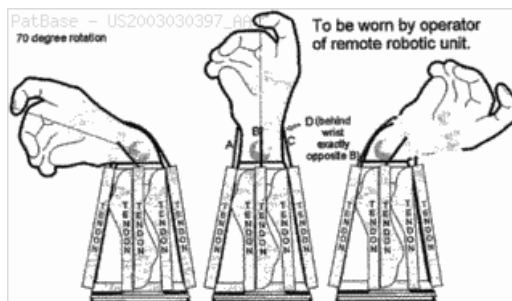
Title: Natural robot control

Abstract: An apparatus and process for controlling a remote robot responsive to the integrated sensory perceptions, natural body movements, inertia and gravitation of an operator/user who is himself responding to a three dimensional virtual world of visual and sensory conditions responsive to the environment at the remote site where the robot is operating. The user requires no training, special commands or devices to direct the robot because the user has the perception of actually being at the remote location, handling remote objects he sees and feels in his hands, walking, climbing, viewing and feeling the remote world.

Classifications:

International (IPC 8-9): A61B5/103 A61B5/117 A61F4/00 B25J9/00

B25J9/16 G06F3/00 G06F3/01 G09B21/00 (Advanced/Invention);
A61F4/00 B25J9/00 B25J9/16 G06F3/00 G06F3/01 (Core/Invention)
International (IPC 1-7): A61B5/00 A61B5/103 A61N1/18 B25J9/18
G05B19/00 G05B19/19
CPC: A61F4/00 B25J9/0006 B25J9/1689 G05B2219/40136
G05B2219/40144 G06F3/011
European: A61F4/00 B25J9/00E B25J9/16T4 G06F3/00B8
G06F3/01B S05B219/40136 S05B219/40144
US: 318/568.11 318/568.110P 318/568.12 318/568.17 340/825.19
345/156 600/590 600/595 600/595P 601/33 601/33S 601/5 601/5S
607/47 607/47S 607/48 607/48P 607/49 607/49S 700/245 700/253
701/23 901/23 901/34



Family:

Publication number	Publication date	Application number	Application date
US2003030397 AA	20030213	US20010960294	20010920
US2003120183 AA	20030626	US20020202414	20020722
US2003191507 AA	20031009	US20010960293	20010920
US6741911 BB	20040525	US20010960294	20010920
US6805677 BB	20041019	US20010960293	20010920
US7918808 BB	20110405	US20020202414	20020722

Priority:

US20000234191P 20000920 US20010960293 20010920 US20010960294 20010920
US20010960293 20010920 US20020202414 20020722

Probable Assignee: SIMMONS JOHN CASTLE

Assignee(s): (std): SIMMONS JOHN C ; SIMMONS JOHN CASTLE

Inventor(s): (std): SIMMONS JOHN CASTLE ; SIMMONS JOHN C

3) Family number: 44358032 (CN101637645A)

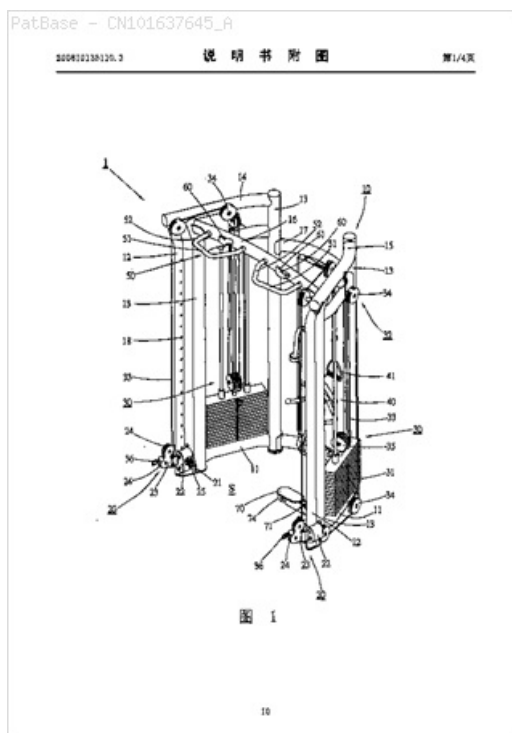
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Title: Multifunctional training equipment with function of training muscle of finger position

Abstract: The invention relates to multifunctional training equipment with the function of training muscle of finger positions. The equipment comprises a frame body, two guiding components, a resistance generating unit, a cable pulley mechanism, at least one operating component and two rock blocks for rock climbing, wherein the frame body is arranged on a plane, and is provided with two lateral columns respectively positioned on the left side and the right side; motion space is arranged between the two lateral columns; the two guiding components are respectively arranged on the two lateral columns, can be lifted along the lateral columns respectively, and can be positioned at a preset height; the resistance generating unit is arranged on the frame body, and can generate resistance so as to enable users to overcome the resistance for training; the cable pulley mechanism is provided with at least one cable and a plurality of pulleys; the pulleys are arranged on the frame body; the cable is connected with the resistance generating unit and winds the pulleys, and is provided with two pulling ends; the two pulling ends are respectively dragged to positions of the two guiding components; the at least one operating component is connected to the pulling ends; the two rock blocks for rock climbing are respectively provided with a finger grasping part; the two rock blocks are parallelly and respectively arranged on the frame body above the motion space in a left-right direction approximately; and the finger grasping parts are grasped by user fingers so as to perform pull-up training in the motion space.

Classifications:

International (IPC 8-9): A63B21/06 A63B21/062 A63B23/02
A63B23/04 A63B23/12 A63B23/16 (Advanced/Invention);
A63B23/035 (Core/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN101637645 A	20100203	CN200810135110	20080730
CN101637645 B	20110720	CN200810135110	20080730

Priority:

CN200810135110 20080730

Probable Assignee:

JOHNSON HEALTH TECH CO LTD

Assignee(s): (std):

JOHNSON HEALTH TECH CO LTD

Assignee(s):

JOHNSON HEALTH TECH CO

Inventor(s): (std):

FENSTER MARRACK ; HAIJUN ZHU

Inventor(s):

ZHU HAIJUN ; MARRACK FENSTER

4) Family number: 20678145 (US6305051B)

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Title: FINGER SUPPORTING STRUCTURE

Abstract: A finger supporting structure (F) includes a grip portion and a finger supporter (T) formed thereto. The grip portion is of an elongated bar shape and has adequate length and thickness for a hand to grasp. The grip portion is either all or part of a grasping member of an implement or all or part of a gripping member (G) having internal hole to receive the grasping member of an implement. The finger supporter (T) is a laterally extending projection rigidly formed, in one piece, on the grip portion. The finger supporter (T) is angled to be inclined with respect to the axis (X) of the grip portion in order that the resultant force of the muscles of the digits and hand can be generated and exerted to the optimal. The finger supporting structure (F) is embodied in the grasping members of various implements and thereby provides gripping parts (H) having finger supporter (T) of the implements.

Classifications:

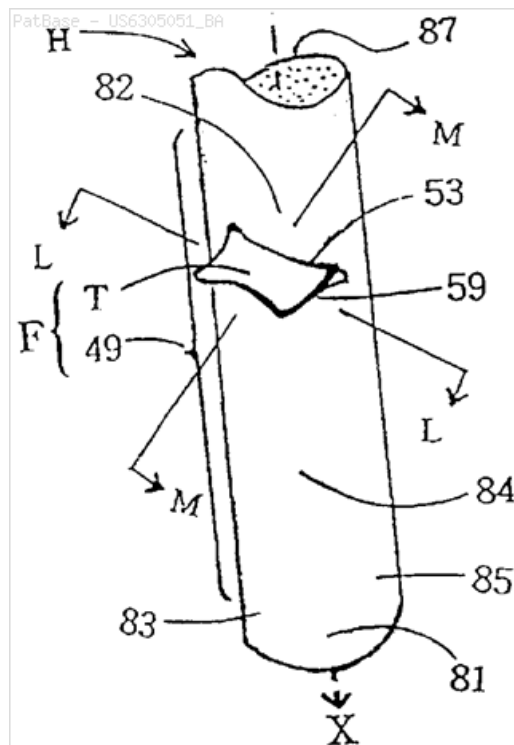
International (ipc 8-9): A63B59/00 B25G1/10 (Advanced/Invention); A63B59/00 B25G1/00 (Core/Invention)

International (ipc 1-7): B25G1/00 B25G1/10 B25G3/00 B65G1/10 H02M1/16

CPC: Y10S16/12 A63B5/20 A63B21/0724 A63B21/0726 A63B29/08 A63B2208/12 Y10T16/476 Y10T16/498 A63B59/20 A63B59/50 A63B60/06 A63B60/08 A63B60/12 A63B60/14 A63B60/32 A63B2102/18 A63B21/4035 A63B49/08 A63B53/14 B25G1/102 A63B60/10

European: A63B21/14K4H A63B59/00B B25G1/10B K63B208/12 K63B21/072B K63B21/072D K63B29/08 K63B5/20 K63B59/00B10 K63B59/00B3 K63B59/00B4 K63B59/02 K63B59/06

US: 16/430 16/436 16/DIG.12 473/549 473/568 81/177.1 81/489

**Family:**

Publication number	Publication date	Application number	Application date
AU199870840 A1	19981124	AU19980070840	19980428
AU748115 B2	20020530	AU19980070840	19980428
CA2289254 AA	19991028	CA19982289254	19980428
CN1126643 C	20031105	CN19988006695	19980428
CN1261840 A	20000802	CN19988006695	19980428
EP1037827 A2	20000927	EP19980917772	19980428
JP2002510250 T2	20020402	JP19980546843T	19980428
KR19980081814 A	19981125	KR19980015221	19980428
US6305051 BA	20011023	US20000423023	20000317
WO9848979 A2	19981105	WO1998KR00106	19980428
WO9848979 A3	19990128	WO1998KR00106	19980428

Priority:

KR19970017165 19970428 WO1998KR00106 19980428

Probable Assignee: SHO MYONG HO**Assignee(s):** (std): CHO MYONG HO ; HO CHO MYONG ; SHO MYONG HO**Assignee(s):** MYONG HO CHO**Inventor(s):** (std): HO CHO MYONG ; CHO MYONG HO**Inventor(s):** MYONG HO CHO**Agent(s):** SHELSTON IP; SHELSTON IP PTY LTD; SIM AND MCBURNEY

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 GE GH GM GN GR GW HU ID IE IL IS IT JP KE KG KP KZ LC LI 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

Title: VERTICAL FITNESS APPARATUS AND METHOD OF EXERCISING

Abstract: A fitness wall panel has a height chosen to correspond with (1) the height of the user and/or (2) the environmental limitations of the containing room, producing a multifunctional exercise system. Large, rugged hand/foot holds and/or handles are removably bolted in the panel. Elastic straps, bands, ropes, chains, cables, platforms, bars and various other attachments can be mounted on the panel. Optional pulley systems and vibrators are mountable to the panel. Removable attachment of the foregoing devices creates a multitude of functional options and configurations, allowing a multitude of different exercise and training methods to be performed on one piece of equipment. Panels can be configured into arrays, projections or posts standing alone. Users work up and down and side to side doing exercises to perform full body and/or muscle specific or isolating exercises or any combination thereof in a limited space without exposure to dangerous height.

Classifications:

International (IPC 8-9): A63B A63B17/00 A63B23/035 A63B23/12

A63B27/00 A63B29/04 A63B69/00 A63B9/00 (Advanced/Invention);

A63B1/00 A63B21/00 A63B21/04 A63B21/055 A63B21/062

A63B21/068 A63B21/16 (Advanced/Non-invention);

A63B27/00 A63B29/00 (Core/Invention)

CPC: A63B69/0048 A63B1/00 A63B21/00047 A63B21/0442

A63B21/0552 A63B21/062 A63B21/068 A63B23/03541 A63B23/1236

A63B2210/50 A63B2213/00 A63B2225/093 A63B2225/107

A63B23/1218 A63B21/0628 A63B21/169 A63B21/4013

European: A63B21/14A7A A63B23/035C4S A63B69/00M K63B1/00

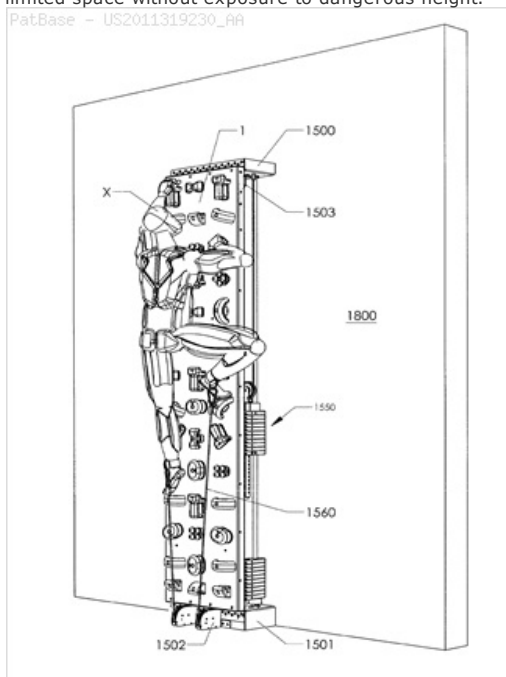
K63B21/00E K63B21/04C K63B21/055D K63B21/062 K63B21/068

K63B21/16W K63B210/50 K63B213/00 K63B225/09H K63B225/10S2

K63B23/12A4 K63B23/12A6

US: 1/1 482/37 482/37P

PatBase - US2011319230_AA



Family:

Publication number	Publication date	Application number	Application date
CA2754596 AA	20110906	CA20102754596	20100311
CN102387841 A	20120321	CN201080015392	20100311
CN102387841 B	20141022	CN201080015392	20100311
HK1166739 A1	20121109	HK20120107317	20120725
US2011319230 AA	20111229	US20100255840	20100311
US9132330 BB	20150915	US20100255840	20100311
WO10105113 A2	20100916	WO2010US27064	20100311
WO10105113 A3	20110210	WO2010US27064	20100311
WO10105113 A9	20101223	WO2010US27064	20100311

Priority:

US20090159155P 20090311 US20100255840 20100311 WO2010US27064 20100311

Probable Assignee: FITWALL VENTURES LLC

Assignee(s): (std): BRENDLE DOUGLAS ; DOUGLAS BRENDLE ; FITWALL VENTURES LLC

Assignee(s): FITWALL VENTURES LLC304-1306 NW HOYT STREETPORTLANDOR97210US ; BRENDLE DOUGLAS66436 DORSEY ROADCHEYENNEWY82009US

Inventor(s): (std): BRENDLE DOUGLAS ; DOUGLAS BRENDLE

Inventor(s): BRENDLE DOUGLAS66436 DORSEY ROADCHEYENNEWY82009US

Agent(s): CASSAN MACLEAN; BORDEN LADNER GERVAIS LLP; HK PAT IP LTD; LEASON ELLIS LLP; POLSON MARGARET

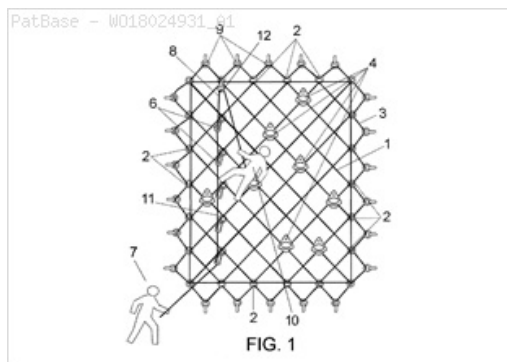
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Title: DEVICE FOR CLIMBING

Abstract: The invention relates to a dismantlable device for climbing and climbing training, which is formed by a mesh or net duly anchored and stretched over a surface, a plurality of grip-support elements, a rope or similar, and safety anchors. The device is also provided with fastening means for assembling and stretching the mesh and adjusting the slope thereof on the surface, and complementary attachment elements, such as rings or similar, such that a rope or similar is interwoven between the complementary attachment means and the means for securing, and stretching the mesh or grid and adjusting the slope thereof. The mesh can be disposed with any slope, completely or in sections, at the convenience of the climber, by securing same for this purpose at various anchoring points used to adjust the slope of the mesh, or by using structures that offer various slopes on the same surface.

Classifications:

International (IPC 8-9): A63B27/00 A63B29/08 (Advanced/Invention)

**Family:**

Publication number	Publication date	Application number	Application date
ES1165112 UA	20160921	ES20160031008U	20160805
ES1165112 Y1	20161214	ES20160031008U	20160805
WO18024931 A1	20180208	WO2017ES70553	20170731

Priority:

ES20160031008U 20160805

Probable Assignee: VALDIVIA JIMENEZ GLORIA**Assignee(s):** (std): GAZQUEZ Y ORTIZ JAVIER ; VALDIVIA JIMENEZ GLORIA**Assignee(s):** GLORIA VALDIVIA JIMENEZ ; JAVIER GAZQUEZ Y ORTIZ**Inventor(s):** (std): GAZQUEZ Y ORTIZ JAVIER**Inventor(s):** JAVIER GAZQUEZ Y ORTIZ**Agent(s):** TOLEDO EVA; TOLEDO ALARCON EVA

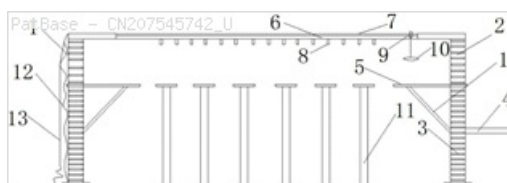
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN 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

7) Family number: 70296936 (CN207545742U)

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Title: NORMAL STUDENT PSYCHOLOGICAL BEHAVIOR TRAINING DEVICE

Abstract: The utility model discloses a psychological education technical field's a normal student psychological behavior training device, which comprises a body, both ends are equipped with the pillar respectively about the body, evenly be equipped with the cat ladder on the front end column wall of pillar, the right -hand member of stating the pillar is equipped with to trust to carry on the back and falls the platform, controls two sets of the inboard of pillar all is equipped with the safety board, controls two sets of the pillar passes through bolt fixedly connected with rope and crossbeam, the cover is equipped with pulley and safety belt on the rope, the pole is grabbed in the air in evenly being equipped with of crossbeam, and is two sets of be equipped with the quincuncial pile between the safety board, the left side the pillar is equipped with integrated into one piece's rock climbing wall, and the top of rock climbing wall passes through bolt fixedly connected with rock climbing rope, has both saved the area of psychological behavior training equipment through the psychological behavior training equipment setting with commonly used on same device, lets not only the student when carrying out psychological behavior training but also tempered the health.

Classifications:**International (IPC 8-9):** A63B26/00 A63B69/00 (Advanced/Invention)**Family:**

Publication number	Publication date	Application number	Application date
CN207545742 U	20180629	CN201721634999U	20171130

Priority:

CN201721634999U 20171130

Probable Assignee: UNIV ANSHAN NORMAL**Assignee(s):** (std): ANSHAN NORMAL UNIV ; UNIV ANSHAN NORMAL**Inventor(s):** (std): WANG RUI**8) Family number: 17003364 (DE29918306U1)**

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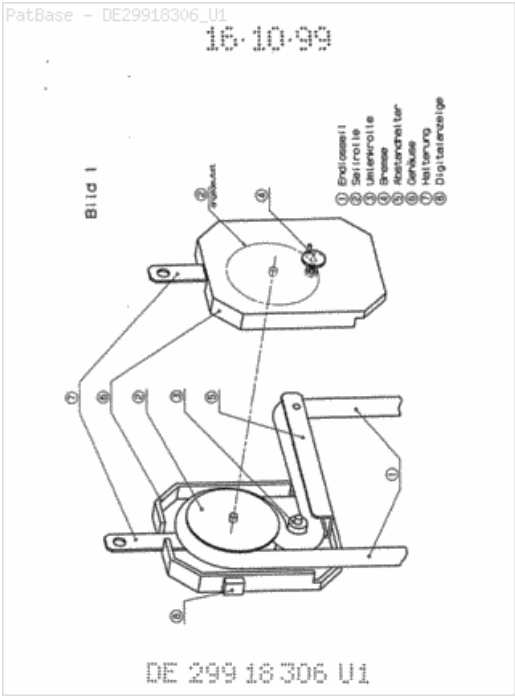
Title: KLETTERGERAET Climbing DEVICE (Machine translation)

Abstract: Source: DE29918306U1 [DE] (Claim 1) 1. Klettergeraet, insbesondere zum Trainieren der zum Klettern benoetigten Muskeln, das ein Endlosseil aufweist, wobei das Endlosseil - ueber eine stufenlos bremsbare Seilrolle laeuft.

Machine translation: (Claim 1) 1. Climbing equipment, in particular for training for climbing needed muscles, which exhibits a continuous rope, whereby the continuous rope - over a steplessly brakable pulley runs.

Classifications:**International (IPC 8-9):** A63B7/04 (Advanced/Invention);

A63B7/00 (Core/Invention)
International (IPC 1-7): A63B29/02 A63B7/04
CPC: A63B7/04 A63B7/045
European: A63B7/04 K63B7/04E



Family:

Publication number	Publication date	Application number	Application date
DE29918306 U1	20000217	DE19992018306U	19991016

Priority:

DE19992018306U 19991016

Probable Assignee:

GROSS ANDREAS

Assignee(s): (std):

GROSS ANDREAS

9) Family number: 62862571 (CN205360383U)

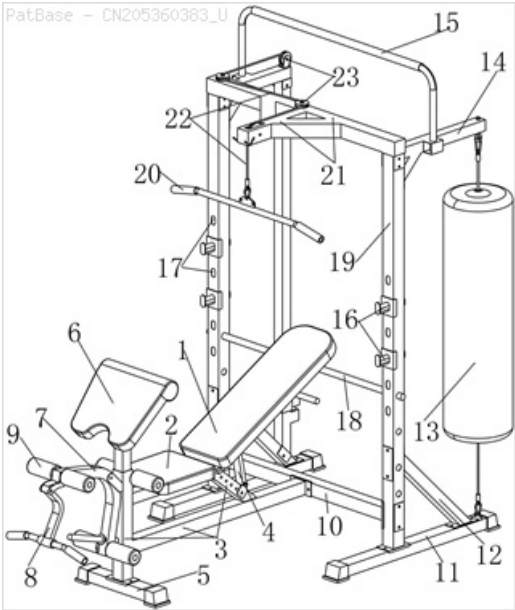
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Title: MANY FUNCTIONAL SAFETY HEIGHT DRAWS PORTAL FRAME SAND BAG HORIZONTAL BAR WEIGHT LIFTING BED

Abstract: The utility model discloses a many functional safety height draws portal frame sand bag horizontal bar weight lifting bed, its characterized in that: be equipped with the head tree on the base of back, the support frame both ends are fixed on head tree and back base, form triangular structure, the triangle is hung oneself from a beam to put up and is fixed on two head tree tops, the higher authority be equipped with a plurality of pulleys, the A-frame front end is equipped with the pulley, the sand bag is buckled with the mountain-climbing and is hung on A-frame and back base, the U-shaped horizontal bar is fixed on A-frame, the track frame is fixed in the middle of A-frame and support frame, lacing film ware cover is in the middle of the track frame, wire rope one end is detained with the mountain-climbing and is colluded on the lacing film ware, the other end twines in the middle of the pulley along setting up the track that the pulley A-frame hangs oneself from a beam the frame and downwards fixing the pull rod with the mountain-climbing knot. Predominant use draws training ware, the multiple equipment of sand bag to combine together bench press frame, portal frame, horizontal bar, height, can carry out the exercise of many function synthesis nature, guarantees the user's needs.

Classifications:

International (IPC 8-9): A63B1/00 A63B21/072 A63B23/02
A63B23/04 A63B69/22 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
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Priority:

CN201620003520U 20160105

Probable Assignee:

KANG HONGYAN

Assignee(s): (std):

KANG HONGYAN

Inventor(s): (std):

KANG HONGYAN

10) Family number: 65122791 (WO18044149A1)

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Title: ROCK-CLIMBING MACHINE COMPRISING AN ELASTIC CORD

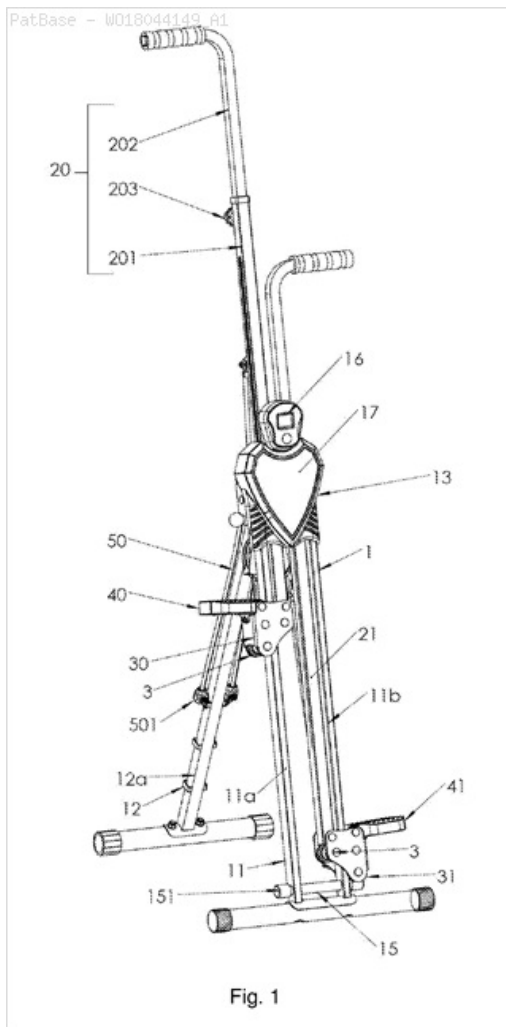
Abstract: The present invention relates to training equipment for climbing with elastic resistance cords, comprising: a support, a left-hand grab rail and a right-hand grab rail, said support including a front support, a rear support and a guide structure connected to the upper end of the front support. The rear support is connected to the guide rails or front support which is provided with two parallel rails, namely one on the right and one of the left. The equipment also comprises: a left-hand slide connected to the left-hand rail and to the left-hand pedal; a front pulley connected to a pull cord, one end of said pull cord being connected to the left-hand slide, while the other end is connected to the right-hand slide; a left-hand elastic resistance cord that passes between two first left-hand guide wheels, one end of the left-hand elastic resistance cord being connected to the left-hand rail and the other end being connected to the support; and a right-hand elastic resistance cord that passes between two first right-hand guide wheels, one end of the right-hand elastic resistance cord being connected to the right-hand rail and the other end being connected to the support. With the equipment of the present invention the magnitude of the force can be varied by applying the pedal, thereby changing the amount by which the resistance elastic cord is stretched, in order to adjust the intensity of the exercise.

Classifications:

International (IPC 8-9): A63B21/055 A63B22/12 A63B3/00

A63B69/00 (Advanced/Invention)

CPC: A63B21/055



Family:

Publication number	Publication date	Application number	Application date
CN205994996 U	20170308	CN201620993795U	20160830
CO20190001954 A2	20190308	CO20190001954	20190228
EP3508257 A1	20190710	EP20170847072	20170830
UY4661 U	20180430	UY20170004661U	20170830
WO18044149 A1	20180308	WO2017MX50011	20170830

Priority:

CN201620993795U 20160830

WO2017MX50011 20170830

Probable Assignee: XIAMEN YULONG SPORTS EQUIPMENT CO LTD

Assignee(s): (std): MERCENARI URIBE FERNANDO HUMBERTO ; XIAMEN YULONG SPORTS EQUIPMENT CO LTD

Assignee(s): XIAMEN YULONG SPORTS EQUIPMENT CO

Inventor(s): (std): YUZHONG ZHOU ; ZHOU YUZHONG

Agent(s): ABG INTELLECTUAL PROPERTY SL; ALVAREZ DELUCIO BEATRIZ ET AL

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 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

11) Family number: 17713662 (DE29505475U1)

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Title: Rope climbing equipment

Abstract: Source: DE29505475U1 [DE] (Claim 1) 1. Seilklettergeraet zum Ersetzen eines Seils fuer das koerperliche Konditionstraining und das Muskeltraining, wobei ein endlosesSeil (1) von einem Rahmen (2) durch mehrere Flaschenzugrollen (3) gehalten wird, sodass das Seil innerhalb eines Zimmers ohneAbsturzgefahr verwendet werden kann.

Machine translation: (Claim 1) 1 Seilklettergeraet to replace a cable is provided with physical fitness training and bodybuilding, with a endlosesSeil (1) of a frame (2) held by a number of pulley wheels (3), so that the rope can be used without risk of falls within a room.

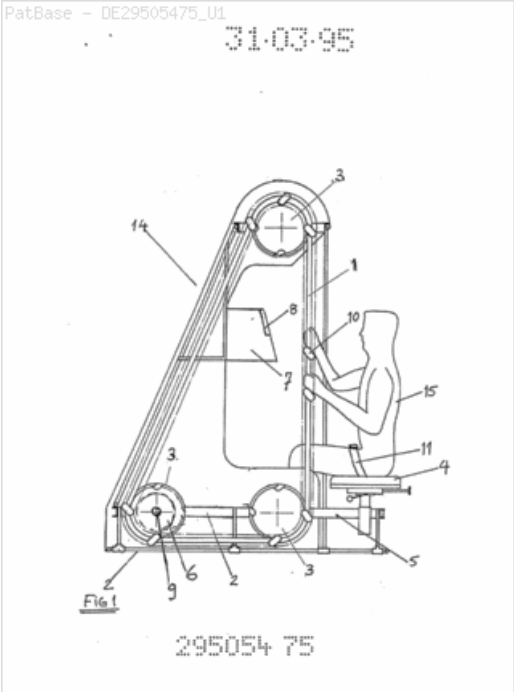
Classifications:

International (IPC 8-9): A63B7/04 (Advanced/Invention); A63B7/00 (Core/Invention)

International (IPC 1-7): A63B21/00 A63B21/018 A63B24/00 A63B27/00

CPC: A63B7/04 A63B7/045

European: A63B7/04 K63B7/04E



Family:

Publication number	Publication date	Application number	Application date
DE29505475 U1	19950720	DE19952005475U	19950331

Priority:

DE19952005475U 19950331

Probable Assignee: KRAUS HERBERT B

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12) Family number: 55320009 (RU2508927C)

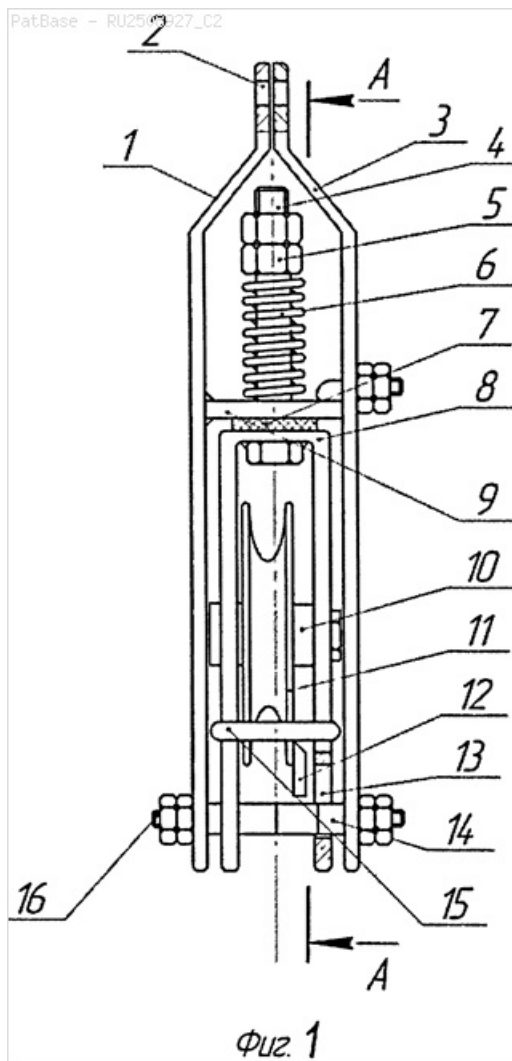
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Title: DEVICE FOR SPOTTING OF CLIMBER

Abstract: FIELD: sports.SUBSTANCE: invention relates to sport equipment, in particular, to equipment for climbing, and can be used for training climbers, mountaineers and rescuers to ensure safety during ascents and descents. The device for spotting the climber comprises an outer forked guide holder consisting of two planks, one of which is removable, fixed with the threaded connections. At the junction of the planks there are coaxial openings for fixing the safety hook. In the outer holder a horizontal thrust plate is fixed, through the opening in which the bolt is passed through with a spring put on it which is secured with two nuts from above, and from below it is limited with a horizontal thrust plate. Under the horizontal thrust plate a "U"-shaped inner holder is mounted, on which a sprung bolt is rigidly fixed, and between the horizontal thrust plate and the "U"-shaped inner holder a snubbing washer is mounted. Inside the "U"-shaped inner holder on the horizontal axis a pulley is mounted with a wedge-shaped groove and a stopping tooth secured on it. On the inner holder below the pulley axis, an oval limiting clamp is attached, and lower the clamp, at some distance from it, a pin is mounted, extending through the aligned openings in both holders, and mounted on the outer cage with the threaded connections. A part of the pin in contact with the stopping tooth is made triangular in cross section. In vertical planks of the "U"-shaped inner holder the vertical grooves are made.EFFECT: increasing the reliability of spotting and increasing the lifetime of the rope.5 cl, 2 dwg

Classifications:

International (IPC 8-9): A63B29/00 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
RU2012122773 A	20131210	RU20120122773	20120601
RU2508927 C2	20140310	RU20120122773	20120601

Priority:

RU20120122773 20120601

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Inventor(s): (std): VYTOVTOVA NATAL JA JUR EVNA ; VYTOVTOV VLADIMIR ALEKSEEVICH ; VYTOVTOV ALEKSEJ VLADIMIROVICH

13) Family number: 63974132 (CN205672444U)

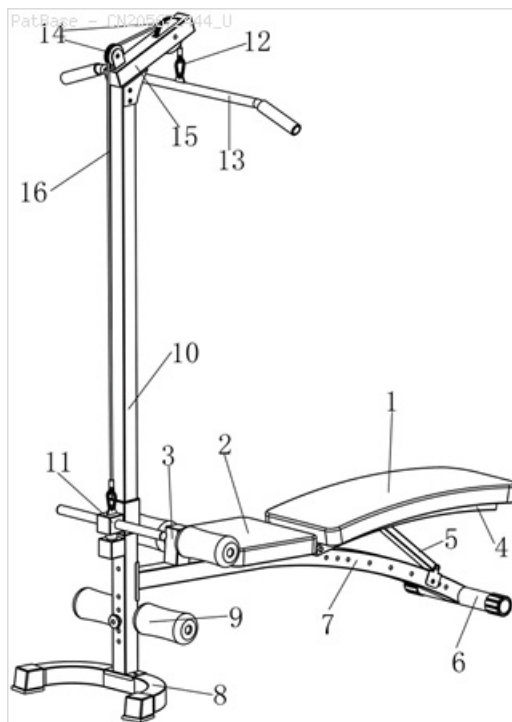
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Title: ARC PLATE HEIGHT PULL ROD DUMBBELL BENCH OF LYING ON BACK

Abstract: The utility model discloses an arc plate height pull rod dumbbell bench of lying on back, its characterized in that: gao lazhi sets up on the U-shaped base, arc main support front end is established on the height draws the support, the rear end welding is on the base, the leg guard device is established on the arc main support, the seat is fixed on the arc main support, the ARC support frame front end is fixed on the arc main support, the adjusting device front end is fixed in the middle of ARC support frame, establish on the arc main support rear end, the arc service creeper is fixed on ARC support frame, it sets up on the height draws the support to collude the leg, lacing film ware cover is in the middle of the height draws the support, the top of drawing the support at the height is fixed to the overarm support, the pulley is established on the overarm support, wire rope one end is detained through the mountain-climbing and is fixed on the lacing film ware, mid portion establishes on the pulley, the other end is detained through the mountain-climbing and is fixed on the pull rod. Predominant use draws many moneys of training ware body-building apparatus to combine together the board of lying on the back, dumbbell bench, height, realizes the function integration, reaches an equipment multiple use and realizes synthesizing the body exercise purpose.

Classifications:

International (IPC 8-9): A63B21/078 A63B23/02
A63B23/12 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN205672444 U	20161109	CN201620551730U	20160610

Priority:

CN201620551730U 20160610

Probable Assignee:

KANG HONGYAN

Assignee(s): (std):

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Inventor(s): (std):

KANG HONGYAN

14) Family number: 44261591 (US2010022363A)

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Title: EXERCISE APPARATUS

Abstract: The present invention relates to an exercise apparatus which is a multiple functions exercise apparatus. One function of the exercise apparatus allows the user taking chin-up exercise substantially solely by his fingers. The exercise apparatus comprises a frame, two guiding mechanisms respectively connected to the left and right sides of the frame, a load unit positioned on the frame, a cable-and-pulley device connected to the frame and linked the load unit and the guiding mechanisms, and the cable-and-pulley device further having two pulling portions engaged with respective guiding mechanisms, at least an exercise accessory operable connected to at least one pulling portion, at least two climbing-holds mounted on the frame for the user gripping thereon and taking chin-up exercise.

Classifications:

International (IPC 8-9): A63B21/062 A63B21/068 A63B23/16

A63B9/00 (Advanced/Invention);

A63B21/062 (Advanced/Non-invention);

A63B21/06 A63B9/00 (Core/Invention);

A63B21/06 A63B23/16 (Core/Non-invention)

CPC: A63B23/03541 A63B21/0628 A63B21/4017 A63B23/035

A63B23/03525 A63B23/1218 A63B23/16 A63B69/0048 A63B21/156

A63B71/0036

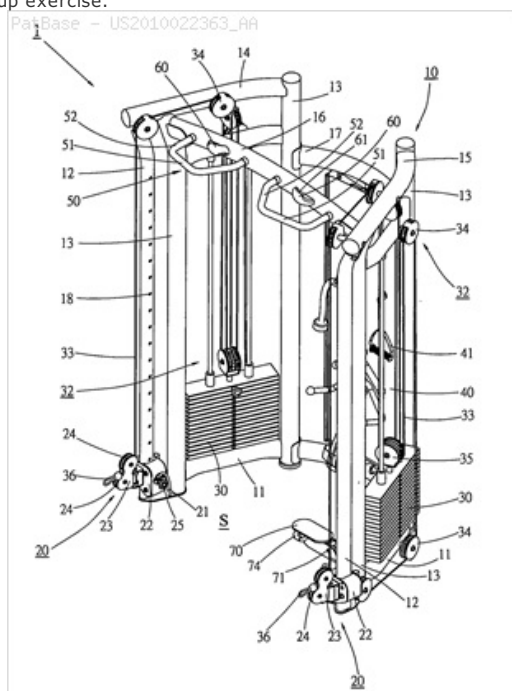
European: A63B21/062 A63B23/035 A63B23/035C2

A63B23/035C4S A63B69/00M K63B21/14A8 K63B23/12A4

K63B23/16 K63B71/00K

US: 482/101 482/101S 482/103 482/138 482/143 482/143S 482/37

482/96 482/96P



Family:

Publication number	Publication date	Application number	Application date
TW201004674 A	20100201	TW20080128719	20080725
US2010022363 AA	20100128	US20080291419	20081112
US7651443 BA	20100126	US20080291419	20081112

Priority:

TW20080128719 20080725 US20080291419 20081112

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Inventor(s): (std): ZHU HAI JUN ; FENSTER MRAKO A ; FENSTER MRAKO

Inventor(s): MRAKO FENSTER

Agent(s): JOHNSON HEALTH TECH / JOE CHEN; JOHNSON HEALTH TECH JOE CHEN

15) Family number: 43631501 (CO4950576A)

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Title: SELECTOR AUTOMATICO DE VELOCIDADES PARA MOVILES CON TRANSMISION DE CADENA SELECTOR SPEED
AUTOMATIC TRANSMISSION FOR MOBILE WITH CHAIN (Machine translation)

Abstract: Source: CO4950576A [ES] 1.- Selector automatico de velocidades para moviles con transmision de cadena que disponen de caja (sistema) de cambios de velocidades (motocicletas, bicicletas y triciclos industriales) o para aquellos que no lo tienen pero se les puede incorporar el mecanismo de cambios automaticos. Este selector permite que los cambios se hagan en forma totalmente automatica de acuerdo a una variacion de velocidad del movil debido al motor o a la fuerza fisica del ciclista. Caracterizado por tener una seccion generadora situada en el enradiado de la rueda trasera y que genera la fuerza centrifuga debido a la velocidad angular cuando el movil esta en movimiento la transmite a la seccion reguladora, que va internamente en la manzana (capsula) encargada de controlar y unificar estas fuerzas y llevarla a la seccion selectora encargada de seleccionar la relacion de pinones (cambios) situada externamente y unida a la seccion selectora y al casete de ruedas dentadas (pacha). Tiene ademas un mecanismo (disipador de tension) que bloquea o desbloquea el descarrilador de la seccion selectora y permite que los cambios se hagan automaticamente. **Machine translation:** 1. speed automatic transmission for mobile phone chain with available cash (system) derailleurs (motorcycles, bicycles and industrial tricycles) or for those who do not but they can incorporate automatic shift mechanism Selector. This switch allows changes to be made in a totally automatic according to a mobile speed variation due to the engine or the physical strength of the rider. Characterized by having a generating enradiado section at the rear wheel and the centrifugal force generated due to the angular velocity when the mobile is moving forwards it to the regulatory section, which is internally in the block (capsule) which monitors and unify these forces and take it to the selector section in charge of selecting the ratio of pinions (changes) located externally and connected to the selector section and cassette sprockets (pacha). Also it has a mechanism (sink tension) which locks or unlocks the derailleur selector section and allows changes are automatically made.

Classifications:

International (IPC 8-9): B60K23/00 B62M25/00 (Advanced/Invention);
B60K23/00 B62M25/00 (Core/Invention)

International (IPC 1-7): B60K23/00 B62M25/00

Family:

Publication number	Publication date	Application number	Application date
CO4950576 A1	20000901	CO19980038855	19980709

Priority:

CO19980038855 19980709 CO19980980388 19980709

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Inventor(s): (std): SANCHEZ FRANCO JOSE IGNASIO

Inventor(s): JOSE IGNASIO SANCHEZ FRANCO

Agent(s): PAULA ANDREA MEJIA UPEGUI