SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO

RAD: 14-98669- -10 **FECHA**: 2016-02-11 11:43:30
DEP: 2020 DIRECCION DE NUEVAS CREACIONES **EVE:** 1 REGISTRO/DEPOSITO/CONCESION/DEPOSITO
TRA: 2 PATENTES DE INVENCION **FOLIOS**: 7
ACT: 519 TRASLADOINFORME

DIRECCIÓN DE NUEVAS CREACIONES

2020
Bogotá, D.C.,

Abogado(a)/Señor(a)
JUAN PABLO ACOSTA RODRIGUEZ

Asunto: Radicación: 14-98669- -10
Trámite: 2
Evento: 1
Actuación: 519
Oficio: 1200
Folios: 7

Patente de Invención	**X**			Patente de Modelo de Utilidad	
Vía Nacional	**X**				
Vía PCT (Fase Nacional)		Capítulo I		Capítulo II	
No. Solicitud Internacional					
Fecha de Presentación Internacional					

Como resultado del examen de fondo realizado, con fundamento en el Artículo 45 de la Decisión 486 de la Comisión de la Comunidad Andina, se comunica:

1. Documentos estudiados

Descripción:	Rad. N° 14-098669-00000-0000	08/Mayo/2014
	Rad. N° 14-098669-00002-0000	28/Julio/2014
Reivindicaciones:	Rad. N° 14-098669-00000-0000	08/Mayo/2014
	Rad. N° 14-098669-00002-0000	28/Julio/2014
Dibujos:	Rad. N° 14-098669-00000-0000	08/Mayo/2014

2. Modificaciones no aceptadas (Art 34 D 486 y Art 19, 22 y 34 PCT)

Las modificaciones al capítulo descriptivo presentado en el Radicado No. 14-098669-00002-0000, no son aceptables porque mencionan "*un soporte para resistencias*", así como "*un soporte tensor para miembros inferiores*", páginas 42 y 43, siendo elementos que no fueron considerados en la solicitud inicialmente presentada. Lo anterior hace que la solicitud incurra en ampliación de la materia radicada inicialmente, por lo tanto el

capítulo descriptivo presentado en el Radicado No. 14-098669-00002-0000 no puede ser objeto de estudio de patentabilidad, de acuerdo con lo estipulado en el Art. 34 de la Decisión 486 que señala: "*La modificación no podrá implicar una ampliación de la protección que correspondería a la divulgación contenida en la solicitud inicial*".

En la reivindicación 3, Radicado No. 14-098669-00002-0000, páginas 47 y 48, se reclama un "*Soporte- Tensor para Miembros inferiores Independientes*", siendo dicho soporte un elemento que no fue considerado inicialmente, por lo tanto se está ampliando la materia inicialmente reclamada. Por lo anterior, el capítulo reivindicatorio presentado en el Radicado No. 14-098669-00002-0000 no se acepta a estudio de patentabilidad y en su lugar se estudiará el capítulo reivindicatorio presentado inicialmente en el Radicado No. 14-098669-00000-0000 para determinar la novedad y el nivel inventivo del aparato de ejercicios reclamado.

3. Objeto de la invención

De acuerdo con lo establecido en el numeral 1.2.2.2 del Capítulo Primero del Título X de la Circular Única para efectos del examen de patentabilidad, se tendrá en cuenta la tasa pagada por el solicitante al momento de comenzar el examen para las reivindicaciones adicionales; esto es que cuando la solicitud contenga más de diez (10) reivindicaciones y no se haya pagado la tasa complementaria, sólo se estudiarán las cubiertas por la tasa pagada. Por lo tanto, se estudiaran las reivindicaciones 1 y 2.

Título de la solicitud: "Aparato de ejercicio y terapia activa de uso universal" (Ver página 9 del radicado bajo el N° 14-098669-00002-0000).

El problema planteado en esta solicitud consiste en la necesidad de un aparato de ejercicio físico para personas con discapacidad motriz.

Para resolver este problema técnico, la solicitud en estudio proporciona un aparato de ejercicio activo, conformado por una estructura tubular de la cual se desprenden los rieles guía que se encuentran en la parte lateral y frontal.

El objeto de la presente solicitud se relaciona con la Clasificación Internacional de Patentes (CIP): A63B 23/00.

4. De la solicitud de patente

Reivindicaciones (Art 30 D 486, Art 22 PCT)

Las reivindicaciones 1 y 2 no son claras porque reclaman:

- Las reivindicaciones 1 y 2 se refieren a: "*la cual soporta el movimiento lineal realizado y su vez seguridad al hacer ejercicio* (…) *para movimiento lineal* (…) *de movimiento lineal, permiten al unirse con el punto b de este listado un movimiento rectilíneo (…) para sujetar miembros inferiores* (…) *para generar un acompañamiento al realizarse la flexoextensión* (...) *pieza que une el movimiento lineal de los rieles y codos con la semi-rotacion de los pieceros* (…) *como su nombre lo indica tensiona la estructura principal al realizarse el movimiento lineal, esta es ecualizable para poder flexionarse al estar los pieceros adelante y tensionarse al ir hacia atrás, de esta forma generando un seguro estructural y estabilidad (…) la cual es una estructura itinerante (…) para poder ubicarse en aparte interna del aparato o lateral externa*", "*para asegurar el diámetro de los gemelos de las piernas* (...) *que asegura y apoya la planta del pie* (...) *para generar un ángulo de inclinación* (...) *que*

cubre la pantorrilla (...) *para ajustar los miembros inferiores*", que son resultados a alcanzar y no definen al aparato reclamado, puesto que la reivindicación incluiría no sólo la solución propuesta por el solicitante, sino todas las alternativas presentes o futuras que lleguen a esos resultados. Se sugiere reemplazarlos por las características esenciales, estructurales o funcionales, que contribuyen a la obtención de esos efectos.

- La reivindicación 2 hace referencia a la descripción o a los dibujos, según las expresiones "*sus dibujos y cotas corresponde la figura 9* (...) *1 Fig.9* (...) *en el punto d se especifica que existen una superficie para los miembros inferiores (sus dibujos y cotas corresponde la figura 9*". Se sugiere eliminar la referencia a la descripción o a los dibujos, si ésta no es estrictamente necesaria.

- En la reivindicación 1 los términos: "*ecualizable, universal, en aparte*", son imprecisos, por lo cual no permiten distinguir la invención del estado de la técnica. Se sugiere sustituirlos por términos precisos o un rango concreto.

- Se le sugiere al solicitante que indique el número de referencia (X) al frente de la característica o del elemento reclamado, guardando correspondencia con el capítulo descriptivo, las figuras y el capitulo reivindicatorio, con el objetivo de comprender mejor la invención al momento de hacer el análisis y distinguir los elementos que componen la invención.

- La materia reclamada debe estar claramente sustentada en la descripción. Se observa que en la descripción no se enseña de forma clara cuales son el e*je de rotación*, *seguro o broche* que se reclaman en la reivindicación 1. Tampoco es claro cuáles son los *niveladores de piso entre (2) o (6) de la parte trasera*, ni cuál es su función técnica. Por lo anteriormente señalado, dichas características no son comparables con lo perteneciente al estado de la técnica.

- De igual forma, en la descripción no se sustenta en forma clara cuál es el e*je de rotación*, *seguro o broche* que se reclama de los *pieceros*, ni cuál es el *eje de rotación de la superficie universal*. Por lo anterior, dichas características no son comparables con lo perteneciente al estado de la técnica.

- La reivindicación 2, la cual es dependiente de la reivindicación 1, se encuentra mal redactada. Téngase en cuenta que cada reivindicación consta de un preámbulo y una parte caracterizadora. El preámbulo normalmente coincide con el título de la invención, sirve de introducción informativa y contiene la información técnica conocida en el estado de la técnica del objeto que se pretende proteger. En el presenta caso, la reivindicación 2 debe tener el mismo preámbulo de la reivindicación 1, indicándose que depende de dicha reivindicación.

- La parte caracterizadora, que suele seguir al preámbulo precedida por la frase "caracterizado por ", recoge las características técnicas que van a ser protegidas y que constituyen la novedad frente al objeto conocido del estado de la técnica.

- En su redacción, las reivindicaciones dependientes hacen referencia en el preámbulo de la reivindicación principal de la cual dependen y definen en su parte caracterizadora, las características técnicas particulares que se desean proteger de los elementos o de las características definidas en la reivindicación de la cual dependen.

- La reivindicación 2 no se encuentra suficientemente soportada en la descripción, puesto que en el capítulo descriptivo no se enseña ni describe, así como tampoco se revela el efecto técnico de los diferentes elementos que conforman el *piecero* y que son reclamados en dicha reivindicación. Se sugiere complementar esta información sin incurrir en ampliación de la materia inicialmente revelada, es decir, describir en forma completa los pieceros revelados inicialmente sin adicionar en la descripción nuevos elementos que no hayan sido revelados en la radicación inicial.

- De los elementos reclamados en la reivindicación 2, no es caro cómo son la estructura tubular que rodea los bloqueos de talonera (3), el tope (7), el nivelador giratorio, ni la ranura que abrocha en el seguro (6).

Descripción (Art 28 D 486)

- Los números de referencia utilizados en la descripción no coinciden con los representados en las figuras. Se sugiere utilizar números de referencia para relacionar la descripción con las figuras y evitar asignar el mismo número de referencia a dos elementos diferentes. Los números (5), (6), (7), (8) y (9), referencian cada uno, a más de un elemento de la invención.

- Por otra parte, se encuentra importante tener en cuenta el uso del Sistema Internacional de Unidades SI para definir las diferentes dimensiones de la invención y evitar el uso del Sistema Inglés en el cual se utilizan pulgadas como unidad de medida, lo cual no es aceptado.

- Los dibujos contienen títulos y nombres, lo cual no es permitido. Se sugiere presentar un nuevo juego de figuras, evitando incluir títulos y anotaciones en las figuras.

- Se recomienda indicar los números de referencia de los diferentes elementos de la invención representados en las figuras 1 a 7 y omitir todas las figuras que se repiten, tal como las figuras 8 y 9.

- Cada figura debe ser presentada en una hoja separada, y únicamente se titula en la parte inferior de acuerdo al número de la figura que corresponda, por ejemplo: Figura 1.

- Los números de referencia deben escribirse sin indicar la figura, por ejemplo estructura tubular (1) y no (1-Fig.8).

- No es claro cuáles son los rieles guía (7) ni cómo es su conformación. Se sugiere aclarar cómo es su configuración haciendo uso de las figuras.

- En la figura 8 se indica un elemento recto con el número de referencia (4) y no un codo, tal como se reclama.

- No es claro en la descripción cuales son los niveladores, ni cómo están conformados. No es claro cuál es su función técnica.

- La redacción general de la descripción no es clara. Se observa que no describe claramente los elementos que conforman la invención, ni como es su disposición.

- No es claro cuál es el eje de rotación que se une con la estructura base (1) y el tenso trasero (6). Tampoco la sentadera universal tiene un número de referencia

que indique claramente cuál es este elemento el cual se confunde con la superficie plegable (8).

- Se observa que en la figura 5 no se enseña cual es el ítem (10) que se indica en la descripción.

- No es claro cuál es la superficie universal que se menciona en la descripción, debido a que no se presenta un número de referencia que indique cual esta superficie.

- Se recomienda dar un único nombre a cada elemento de la invención, y no diferentes nombres a un mismo elemento, debido a que esto afecta la claridad en la descripción de la invención.

5. Determinación del Estado de la Técnica

El estado de la técnica se determinó con base en la fecha de presentación de la solicitud de patente nacional: mayo 08 de 2014, y se encontró el siguiente documento que anticipa el objeto de esta solicitud:

Ítem	Documento	Título	Fecha de Publicación
D1	US 4,846,156	"Quadra-limbular therapeutic exercise machine"	11/Julio/1989

El documento D1[1] revela una máquina de ejercicios para ser usada por una persona con discapacidad desde su silla de ruedas. Contiene un marco adaptado para recibir la silla de ruedas y rampas de recepción, así como superficies sobre las cuales el usuario puede rodar su silla. Un conjunto de manivelas giratorias están interconectadas a un par de conjuntos de pedales montados en un bastidor. Los conjuntos de pedales están provistos de tiras de velcro de modo que se recibe fácilmente los pies del usuario, y un bloqueo de los conjuntos de pedales para la liberación de los pies (Fl. 1, Resumen).

6. **Examen de Patentabilidad** (Art 14 D486)

Novedad (Art 16 D486)

La reivindicación 1 consiste en: "*Aparato de ejercicios y terapia activa…*" (Ver página 18 del radicado bajo el N° 14-098669-00000-0000).

Comparación de las características técnicas esenciales, con las del estado de la técnica:

Características esenciales	D3
Aparato de ejercicios.	Máquina para hacer ejercicios (Fl. 1, Resumen).
Una estructura tubular.	Una estructura tubular (18), (20) (Fl. 5, Col. 2, líneas 34 a 36; Fig. 4).
Rieles guía.	Rieles guía (34), (36) (Fl. 6, Col. 3, líneas 15 a 22; Fig. 4).
Codos.	Codos (52) (Fl. 6, Col. 4, líneas 7 a 9, Fig. 6).
Pieceros que poseen un eje de rotación, seguro o broche	Pieceros (70) con eje de rotación (62), seguros (75), (76) (Fl. 6, Col. 4, líneas 46 a 59, Figs. 4 y 8).

[1] http://worldwide.espacenet.com/publicationDetails/biblio?CC=US&NR=4846156A&KC=A&FT=D

Soporte para pieceros.	Soporte para pieceros (60) (Fl. 6, Col. 4, líneas 4 a 7, Fig. 4).
Tensor trasero.	Tensor trasero (30G), (32G) (Fl. 6, Col. 3, líneas 1 a 5, Fig. 4).
Superficie.	Superficies (30R), (32R) (Fl. 5, Col. 2, líneas 61 a 63, Fig. 4).

De acuerdo con la tabla anterior, las características esenciales del aparato reclamado en la reivindicación 1 habían sido divulgadas previamente en el documento D1, por lo tanto, la materia reivindicada no es nueva.

Asimismo, el documento D1 divulga las características de las reivindicaciones dependientes así:

- Reivindicación 2: Una superficie (71) con dobleces en su parte frontal y bloqueos de talonera (74), un eje de rotación (62), correas (75), (76) y broche de seguridad tipo velcro (Fl. 6, Col. 4, líneas 50 a 59, Figs. 4 y 8).

7. Conclusión

Los requisitos de Patentabilidad de la presente solicitud están afectados así:

Ítem	Documento	Reivindicaciones afectadas	Requisito que afecta
D1	US 4,846,156	1 y 2	Novedad/Nivel Inventivo

En cumplimiento del artículo 45 de la Decisión 486 de la Comisión de la Comunidad Andina, se le indica que debe dar respuesta dentro del término de sesenta (60) días contados a partir del día siguiente de la fecha de notificación de la presente comunicación. En caso de no dar respuesta al presente requerimiento, o si a pesar de la respuesta subsistieran los impedimentos para la concesión, se denegará la patente.

Se invita al solicitante se sirva indicar, si así lo considera, su renuncia al término faltante de sesenta (60) días para dar respuesta a este requerimiento y presentarla por escrito.

Finalmente, se le recuerda al solicitante que si como respuesta a este requerimiento llegara a modificar el capítulo reivindicatorio y éste contenga más de diez (10) reivindicaciones, no pagará la tasa de modificación voluntaria pero sí la correspondiente al pago por reivindicación adicional.

Notifíquese el presente oficio conforme a lo dispuesto en el numeral 5.2, literal e), del capítulo quinto del título primero de la Circular Única No. 10 de 2001.

JOSÉ LUIS SALAZAR LÓPEZ
Director de Nuevas Creaciones (c)

El anterior requerimiento fue notificado por fijación en lista, de fecha 2016-02-16

Elaboró: Jesus Alejandro Velasquez Salgado
Revisó: Angelica Maria Ramirez

jesusvelasquez

Search history

Search 1:	TAC=(fibre thickness and micrometer and Absorbent article) (Results 0)
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Search 3:	TAC=(fibre and thickness and absorbent article and micro) (Results 25)
Search 4:	PN=(wo2013081515) (Results 1)
Search 5:	[SP]: claims 1. an absorbent article, the absorbent article being a personal hygiene article, comprising a liquid permeable top sheet, a liquid impermeable back sheet, and an absorbent core enclosed between the top sheet and the back sheet, and a fluid flow control member arranged between the top sheet and the backsheet, characterised in that said fluid flow control member is of a nonwoven material comprising a three dimensional network of fibres, said fibres having a thickness of 200-700 micro ?t?, said nonwoven material having a strain of max 50 percent at 5 kpa. 2. the absorbent article of claim 1, wherein said nonwoven material having a strain of max 65 percent at 15 kpa, preferably max 45 percent at 15 kpa. 3. the absorbent article according to claim 1 or 2, wherein said nonwoven material comprises substantially continuous fibres. 4. the absorbent article of any one of claims 1 -3, wherein the fibres of said nonwoven material have a thickness of 250-650 micro ?t?, preferably 300-600 micro ?t?. 5. the absorbent article of any one of claims 1 -4, wherein the fibres of said nonwoven material are thermoplastic fibres. 6. the absorbent article of any one of claims 1 -5, wherein said nonwoven material has a porosity of at least 0.85 below 15 kpa. 7. the absorbent article of any one of claims 1 -6, wherein said nonwoven material has a basis weight of 200-900 g/m2, preferably 200-700 g/m2. 8. the absorbent article of any one of claims 1 -7, wherein said fluid flow control member has a thickness of 4-20 mm, preferably 5-10 mm at 0.2 kpa, preferably 2-7 mm at 15 kpa. 9. the absorbent article of any one of claims 1 -8, wherein said fluid flow control member has a density of 0.01 -0.10 g/cm3, preferably 0.03-0.10 g/cm3 at 0.2 kpa. 10. the absorbent article of any one of claims 1 -9, wherein the fluid flow control member is located between the topsheet and the absorbent core. 1 1. 11.the absorbent article of any one of claims 1 -10, wherein the absorbent core comprises a first absorbent core layer and a second absorbent core layer, and wherein said fluid flow control member is located between said first and second absorbent core layers. 12. the absorbent article of claim 1 1, wherein said first absorbent core layer is arranged between the top sheet and the second absorbent core layer, said first absorbent core layer having an opening extending through the layer. 13. the absorbent article of any one of claims 1 -12, wherein said fluid flow control member consists of a single nonwoven material layer. 14. the absorbent article of any one of claims 1 -13, wherein said fluid flow control member is substantially free from absorbing fibres and superabsorbent material. 15. the absorbent article of any one of claims 1 -14, wherein said fluid flow control member includes a supporting carrier layer, preferably of a nonwoven material or a film material 16. the absorbent article of any one of claims 1 -15, wherein said fluid flow control member is made of a nonwoven material having bonded and random broken bonding points where fibres intersect. 17. the absorbent article of claim 16, wherein the material comprises at least 1, 2, or 3 broken bonding points per 1 cm3. 18. the absorbent article of any one of claims 1 -15, wherein said fluid flow control member is made of a nonwoven material in which the fibres are bonded at points where fibres intersect. (Results 22)
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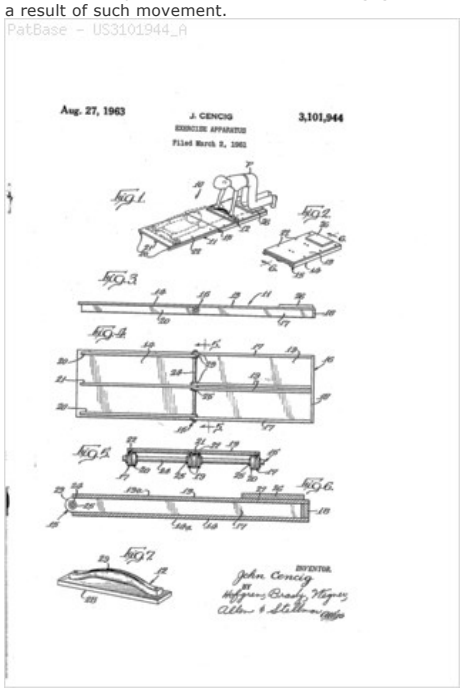
1) Family number: 22814370 (US3101944A)

Title: **Exercise** apparatus

Abstract: Source: US3101944A (Claim 1) 1. **Exercise** apparatus comprising: a portable reac_tion member baving a generally flat surface portion; and a slide member having a generally flat slide surface portion and handle means for movement of said slide member against said reaction member by a bimanual urging of said slide member on said reaction member with said surface portions in frictional facial engagement, said surface portions bein- arranged to preclude substantial abrasion of either thereof as a result of such movement.

Classifications:
International (IPC 8-9): A63B21/012 A63B23/00 (Advanced/Invention)
International (IPC 1-7): A63B23/02
CPC: A63B21/00047 A63B21/012 A63B23/00 A63B2208/0219 A63B2210/50
European: A63B21/012 A63B23/00 K63B208/02C2 K63B21/00E K63B21/012 K63B210/50
US: 482/114 482/132



Family:

Publication number	Publication date	Application number	Application date
US3101944 A	19630827	US19610092888	19610302

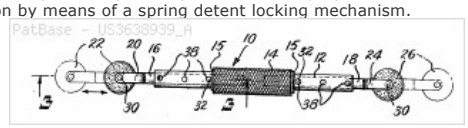
Priority:
US19610092888 19610302

Probable Assignee: JOHN CENCIG
Assignee(s): (std)**:** JOHN CENCIG
Inventor(s): (std)**:** JOHN CENCIG
Inventor(s): CENCIG JOHN

2) Family number: 990182 (US3638939A)

Title: BODY-ENGAGING EXTENSIBLE EXERCISING **DEVICE**

Abstract: Source: US3638939A A **device** which is used for stretching various muscles of the anatomy including, a handle having two spaced rollers which are placed on the inside areas of the legs of the user and pulled toward the abdomen forcing the legs farther and farther apart thus stretching the muscles associated therewith. The distance the legs are forced apart can be regulated by the adjustable telescoping extensions on which the rollers are mounted. The telescoping extensions are adjustably fixed in position by means of a spring detent locking mechanism.



Classifications:
International (IPC 8-9): A61H1/02 A63B23/04 (Advanced/Invention);
A63B23/00 (Advanced/Non-invention);
A61H1/02 A63B23/04 (Core/Invention);
A63B23/00 (Core/Non-invention)
International (IPC 1-7): A63B21/00 A63B23/02 A63B23/04
CPC: A61H1/0244 A61H2001/0248 A63B23/0488 A63B2023/006 A63B2208/0238
European: A61H1/02L2 A63B23/04E2 K61H1/02L2A1 K61H1/02L2S K63B208/02E4 K63B23/00B
US: 15/230.11 272/79R 272/DIG.4 482/132 601/35

Family:

Publication number	Publication date	Application number	Application date
US3638939 A	19720201	US19700072403	19700915

Priority:

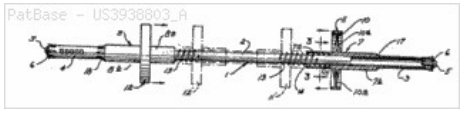
US19700072403 19700915

Probable Assignee: CHARLES J LANGLEY
Assignee(s): (std)**:** CHARLES J LANGLEY
Inventor(s): (std)**:** LANGLEY CHARLES J
Inventor(s): CHARLES J LANGLEY

3) Family number: 1238007 (US3938803A)

Title: DUAL PURPOSE EXERCISING **DEVICE**

Abstract: Source: US3938803A A dual purpose exercising **device** comprised of a bar with hand grips on the outer ends. Wheeled handles are slidably disposed on the bar and are abutted against the hand grips. A spring is disposed about the bar between the wheeled handles to urge them outwardly. The wheeled handles may be moved inwardly against the spring for compression exercising; the wheeled handles acting as wheels for using the **device** as a roller **exerciser**.



Classifications:
International (IPC 8-9): A63B21/05 A63B22/20 A63B23/12 (Advanced/Invention); A63B21/02 A63B22/00 A63B23/035 (Core/Invention)
International (IPC 1-7): A63B21/22 A63B23/02
CPC: A63B21/05 A63B21/0004 A63B21/4035 A63B21/4045 A63B22/20 A63B23/12
European: A63B21/05 A63B22/20 A63B23/00W A63B23/12 K63B21/05
US: 272/57J 482/127 482/132 482/44

Family:

Publication number	Publication date	Application number	Application date
US3938803 A	19760217	US19740493581	19740801

Priority:

US19740493581 19740801

Probable Assignee: WILMOTH ROBERT B

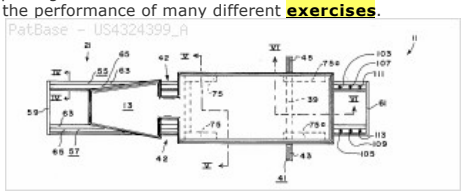
Assignee(s): (std)**:** WILMOTH ROBERT B ; WILMOTH WARREN J

Inventor(s): (std)**:** WILMOTH ROBERT B ; WILMOTH WARREN J

4) Family number: 8543084 (US4324399A)

Title: EXERCISING **DEVICE**

Abstract: Source: US4324399A A **device** for exercising particular muscles of a user as he selectively accomplishes various **exercises** in conjunction therewith. The **device** is characterized by an oblong board member having a size to comfortably support the user's torso and head. The board may be used in several different modes or manners, one of which involves roller apparatus which facilitates traveling the board to-and-fro while in a horizontal disposition. In this mode, track structure is utilized in conjunction with the roller apparatus. In another mode, the board is supported in an inclined stationary fashion to provide, in one instance, an "abdominal board" and in another instance a "slant board". The roller apparatus is made use of in this latter mode to constitute a pair of legs for supporting the elevated end of the board. Other structure which serves a dual function is utilized in reconfiguring the **device** for compatibility with the performance of many different **exercises**.



Classifications:
International (IPC 8-9): A63B23/00 (Advanced/Invention);
A63B22/20 A63B23/02 (Advanced/Non-invention);
A63B23/00 (Core/Invention);
A63B22/00 (Core/Non-invention)
International (IPC 1-7): A63B23/00
CPC: A63B22/203 A63B23/0211 A63B23/00 A63B2208/12
European: A63B23/00 A63B23/02A2 A63B23/035G K63B208/12 K63B22/20
US: 272/144 482/108 482/114 482/132 482/139 482/140 482/142

Family:

Publication number	Publication date	Application number	Application date
US4324399 A	19820413	US19800153752	19800527

Priority:
US19800153752 19800527

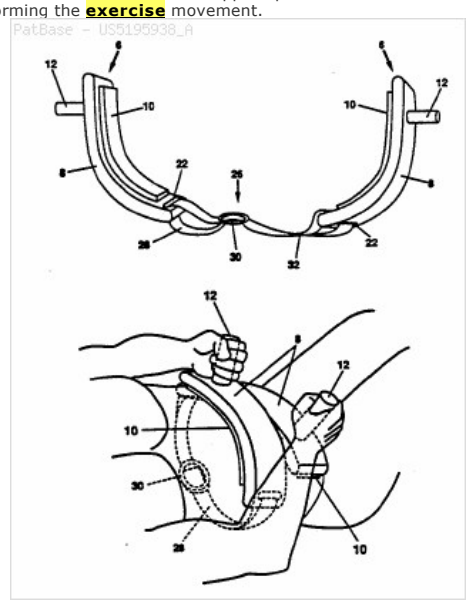
Probable Assignee: RICKEY ROBERT B
Assignee(s): (std)**:** RICKEY ROBERT B
Inventor(s): (std)**:** RICKEY ROBERT B

5) Family number: 11096850 (US5195938A)

Title: Abdominal exercising **device**

Abstract: Source: US5195938A An abdominal exercising **device** having two identical structures, each comprised of a rigid member, pressure pad and handle, are connected by an adjustable strap adapted to partially encircle the users abdominal area. After the user obtains the standard sit-up crunch or leg lift position, the adjustable strap is placed under the lower back while the two structures are brought across the abdominal area with each structures pressure pad contacting the users abdominal muscles. The user holds both handles and applies pressure to the abdominal muscles by simultaneously pulling the handles in toward the torso while performing the **exercise** movement.

Classifications:
International (IPC 8-9): A63B23/02 (Advanced/Invention)
International (IPC 1-7): A63B21/00
CPC: A63B23/0211 A63B2208/0247
European: A63B23/02A2 K63B208/02F1
US: 482/126 482/131 482/132 482/140 482/92



Family:

Publication number	Publication date	Application number	Application date
US5195938 A	19930323	US19920902480	19920619

Priority:
US19900557618 19900724 US19910795289 19911119 US19920902480 19920619

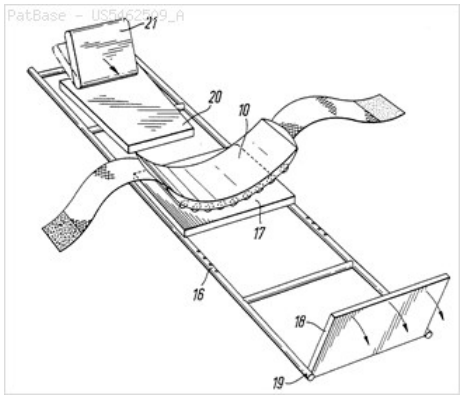
Probable Assignee: KR INNOVATIONS INC
Assignee(s): (std): KR INNOVATIONS INC
Inventor(s): (std): ROBERTSON KEVIN R

6) Family number: 12222311 (US5462509A)

Title: WAIST, HIP, OR SHOULDER **EXERCISE** **DEVICE** ROLLED BY THE USER

Abstract: Source: US5462509A The invention relates to a waist, hip, or shoulder **exercise** **device** designed to tone or develop the torso muscles through gentle **exercise**. The **device** comprises an arcuate body (10) of plastics material or metal shaped to suit a human frame, the body (10) incorporating rollers (11) freely mounted to rotate within the body of the **device**. At each end there are webbing straps (12 and 13) with hook and loop type or similar attachment **devices** 14 and 15. The **exercise** **device** may be used in conjunction with an adjustable frame and a baseboard. The frame may also include a foot rest or a head or shoulder rest. The wheels or rollers may be driven by electric motors by battery or a main power source.

Classifications:
International (IPC 8-9): A63B23/02 (Advanced/Invention); A63B23/00 (Core/Invention)
International (IPC 1-7): A63B21/22 A63B22/20 A63B23/02
CPC: A63B23/03575 Y10S482/907
European: A63B23/035G
US: 482/132 482/139 482/142 482/907



Family:

Publication number	Publication date	Application number	Application date
GB2280592 A1	19950208	GB19930016382	19930806
GB2280592 B2	19970409	GB19930016382	19930806
GB9316382 A0	19930922	GB19930016382	19930806
US5462509 A	19951031	US19940287246	19940808

Priority:
GB19930016382 19930806

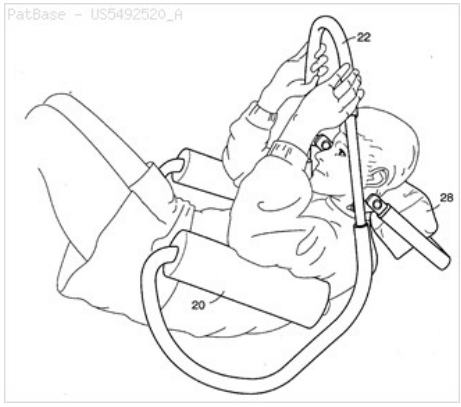
Probable Assignee: LISTER JAMES FREDERICK
Assignee(s): (std)**:** LISTER JAMES F ; LISTER JAMES FREDERICK
Assignee(s): JAMES FREDERICK LISTER
Inventor(s): (std)**:** LISTER JAMES F ; LISTER JAMES FREDERICK
Inventor(s): JAMES FREDERICK LISTER

7) Family number: 10978858 (US5492520A)

Title: Abdominal **exerciser** **device**

Abstract: Source: US5492520A The abdominal **exerciser** **device** is made of a one piece skeletal frame. The frame defines a pair of support rails, a pair of arcuate rocker portions, a pair of arm rest portions and an upstanding arch-shaped portion connecting the support rails together. Removable cushions are disposed on the arm rest portions to receive the elbows of the user when in a supine position. The head and neck of a user are supported on a support extending across the arch-shaped portion. The rocker portions are curved on a circular arc to mimic the curvature of the spine of the user.

Classifications:
International (IPC 8-9): A63B23/02 (Advanced/Invention)
International (IPC 1-7): A63B23/02 A63B23/02
CPC: A63B23/0211 A63B2208/0247
European: A63B23/02A2 A63B23/035G K63B208/02F1
US: 482/132 482/140 482/142



Family:

Publication number	Publication date	Application number	Application date
AT166242 E	19980615	AT19950925411T	19950707
AU199524850 A1	19960125	AU19950024850	19950705
AU672162 B2	19960919	AU19950024850	19950705
BRPI9506034 A	19971014	BR1995PI06034	19950707
CA2153347 AA	19960108	CA19952153347	19950706
CA2153347 C	19970318	CA19952153347	19950706
CA2186146 AA	19960108	CA19952186146	19950706
CA2186146 C	19990413	CA19952186146	19950706
DE69502579 D1	19980625	DE19956002579	19950707
DE69502579 T2	19981126	DE19956002579T	19950707
DK0717649 T3	19990125	DK19950925411T	19950707
EP0717649 A1	19960626	EP19950925411	19950707
EP0717649 A4	19960814	EP19950925411	19950707
EP0717649 B1	19980520	EP19950925411	19950707
ES2119458 T3	19981001	ES19950925411T	19950707
GR3027649 T3	19981130	GR19980401823T	19980814
JP2772142 B2	19980702	JP19960504352T	19950707
JP9502916 T2	19970325	JP19960504352T	19950707
NZ272528 A	19970324	NZ19950272528	19950707
US5492520 A	19960220	US19940271525	19940707
US5577987 A	19961126	US19950369357	19950106
WO9601667 A1	19960125	WO1995US08274	19950707

Priority:

US19940271525 19940707 US19950369357 19950106 WO1995US08274 19950707
CA19952153347 19950706 CA19952186146 19950706

Probable Assignee: TRISTAR PRODUCTS INC

Assignee(s): (std)**:** DONALD BROWN ; PRECISE EXERCISE EQUIPMENT INC ; PRECISE EXERCISE EQUIP INC ; PRECISE EXERCISE EQUIPMENT CO ; BROWN DONALD

Assignee(s): CYBEX INT ; CYBEX INT INC ; PRECISE EXERCISE EQUIPMENT INC CHESTER N J US ; TRISTAR PRODUCTS INC ; PURISAISU EKUSASAIZU IKUITSUPUMENTO INC ; PRECISE EXERCISE EQUIPMENT INC SUITE 300 500 ; LUMEX INC ; PRECISE EXERCISE EQUIPMENT INC BROWN DONALD

Inventor(s): (std)**:** BROWN DONALD

Inventor(s): BROWN DONALD STANHOPE NJ 07930 US ; BURAUN DONARUDO ; DONALD BROWN

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; RIDOUT AND MAYBEE LLP

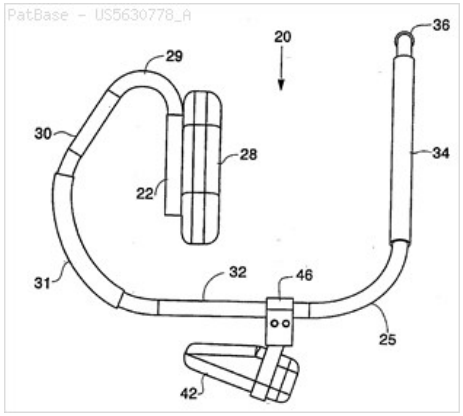
Designated states: AT BE BR CH DE DK ES FR GB GR IE IT JP LI LU MC NL PT SE

8) Family number: 20473950 (US5630778A)

Title: Abdominal **exercise** apparatus and method

Abstract: Source: US5630778A An abdominal **exercise** **device** and method is disclosed that is capable of isolating desired abdominal muscles. The present **device** is preferably made of bent tubular steel and is configured in a double U-shaped configuration whereby a user rests his/her neck on a fixedly adjustable neck support crossbar between opposing U-shape members and rests their upper arm regions on opposing armrests or on an A-frame structure above the user's head. The **device** is fixedly adjustable along various lengths by telescoping means that permit adjustment of the **device** to fit different physical morphologies and configurations. Moreover, armrests and hand grips are pivotally and/or rotatably mounted in order to accommodate personal comfort while using the present **device**. The present method relates to the use of the present **device** to strengthen abdominal muscles without injury to a person's spine and neck by alleviating undesired contraction of other abdominal muscles, such as the psoas muscles, and by maximizing isolated abdominal muscle contraction due to the unique cam design of a ground contracting member.

Classifications:
International (IPC 8-9): A63B21/00 A63B23/00 A63B23/02 (Advanced/Invention); A63B21/00 A63B23/00 (Advanced/Non-invention)
International (IPC 1-7): A63B23/02
CPC: A63B21/0004 A63B21/00047 A63B23/0211 A63B2208/0252
European: A63B21/00D A63B23/02A2 A63B23/035G K63B208/02F2 K63B21/00E
US: 482/132 482/140 482/142



Family:

Publication number	Publication date	Application number	Application date
AU199711213 A1	19970611	AU19970011213	19961120
US5630778 A	19970520	US19950561188	19951121
WO9718859 A2	19970529	WO1996US18602	19961120
WO9718859 A3	19970703	WO1996US18602	19961120

Priority:
US19950561188 19951121 WO1996US18602 19961120

Probable Assignee: PRECISE EXERCISE EQUIPMENT INC C O MANATT PHELPS A

Assignee(s): (std)**:** CAM L L C AB

Assignee(s): CAM LLC AB ; PRECISE EXERCISE EQUIPMENT INC ; PRECISE EXERCISE EQUIPMENT INC C O MANATT PHELPS A ; AB CAM L L C ; AB CAM LLC

Inventor(s): (std)**:** BARRECA JACK ; JACK BARRECA

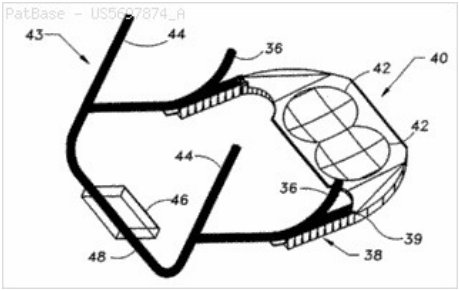
Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CN CU CZ DE DK EE ES FI FR GB GE GR HU IE IL IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MC MD MG MK MN MW MX NL NO NZ PL PT RO RU SD SE SG SI SK SZ TJ TM TR TT UA UG UZ VN

9) Family number: 14985403 (US5697874A)

Title: Abdominal **exerciser**

Abstract: Source: US5697874A An abdominal **exercise** **device** is disclosed. The invention includes a pair of arm portions for the user to grasp, a head rest and support attached thereto, the support being attached to the arm portions, an extension portion extending from each arm portion and a curved radius on the other end thereof. The curved radius being received by a segmented track, the proximal end of the track being fixed to the extension portions such that when a person lies face up between the extension portions with their head on the head rest and pulls down on the arm portions, contracting the abdominal muscles and rolling the curved radius along the track picking up same, the abdominal muscles are worked and the instantaneous center of rotation of the articulating vertebrae are in proper alignment with the instantaneous rotation of the **device**. This guides the body in a proper sit up movement working the abdominal muscles while the head and neck are constantly supported by the head rest. A pelvis support can be fixed to the distal end of each of the tracks thereby offering and maintaining proper placement of the body to the machine, protecting the tail bone from injury from a hard floor and placing the pelvis in slight posterior rotation, reducing lower back stress during the movement.

Classifications:
International (IPC 8-9): A63B23/02 (Advanced/Invention)
International (IPC 1-7): A63B23/02
CPC: A63B21/0004 A63B23/0211 A63B2208/0252
European: A63B21/00D A63B23/02A2 A63B23/035G K63B208/02F2
US: 482/132 482/140 482/142



Family:

Publication number	Publication date	Application number	Application date
US5697874 A	19971216	US19960662776	19960610

Priority:
US19960662776 19960610

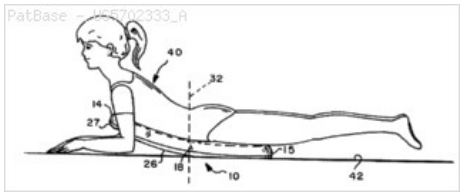
Probable Assignee: ABELBECK KEVIN
Assignee(s): (std): ABELBECK KEVIN
Inventor(s): (std): ABELBECK KEVIN

10) Family number: 14997923 (US5702333A)

Title: METHOD OF SAFELY STRETCHING AND STRENGTHENING THE LUMBAR SPINE AND LUMBAR MUSCLES

Abstract: Source: US5702333A An **exercise** method beneficially and safely affects the lumbar spine and muscles of a human. The method uses a simple **exercise** **device** having a substantially rigid body with top and bottom surfaces, and a front and back. The top surface is configured and dimensioned to safely passively extend a human's lumbar spine when the human lays with her or his stomach on the top surface (e.g. by providing a concave surface with a total angle of concavity of about 10 DEG -30 DEG, preferably about 12 DEG -17 DEG). The bottom surface of the **device** is configured and dimensioned to allow rocking action in a dimension extending from the front to the rear of the **device**, and may include two or more spaced rocking strips with front and rear stops. In addition to passively laying on the top surface, the human may occasionally contract her or his lumbar muscles and rock her or his body toward and away from the front of the **device** to effect rocking action of the **device**, which assists in strengthening the lumbar musculature and promoting stability of her or his back. The method of use also may include the user pushing on the surface on which the **device** bottom surface is positioned with her or his arms to move her or his chest away from the top surface of the **device** while the thighs remain in contact with the top surface, and hold that position for at least a few seconds, so as to passively stretch the front of her or his spine.

Classifications:
International (IPC 8-9): A63B23/02 (Advanced/Invention); A63B23/00 (Core/Invention)
International (IPC 1-7): A63B23/02
CPC: A63B23/0233 A63B2208/0257 A63B2225/30 Y10S482/907
European: A63B23/02B A63B23/035G K63B208/02F4 K63B225/30
US: 482/131 482/132 482/907 601/23



Family:

Publication number	Publication date	Application number	Application date
US5702333 A	19971230	US19960599172	19960209

Priority:
US19950412446 19950329 US19960599172 19960209

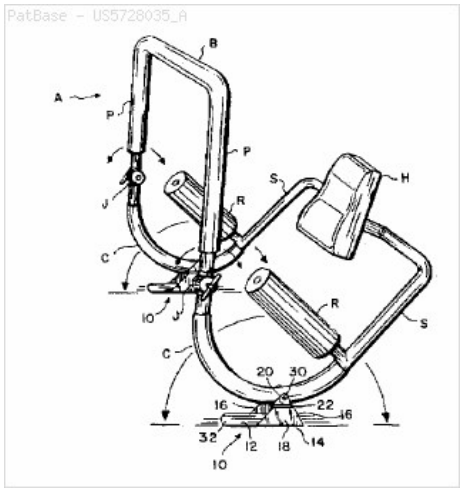
Probable Assignee: WALDRON DAVID W
Assignee(s): (std): WALDRON DAVID W ; WALDRON RICHARD J
Inventor(s): (std): WALDRON DAVID W ; WALDRON RICHARD J

11) Family number: 10699751 (US5728035A)

Title: ANCHOR PLATE FOR ABDOMINAL **EXERCISE** **DEVICE**

Abstract: Source: US5728035A Anchor plates for a framework abdominal **exercise** **device** provide greater stability, a stable axis of rotation, and a better location for the axis of rotation. A base pad is flanked by two brace supports that have a wide lower portion for distributing forces and a narrower upper portion for engaging the abdominal **exercise** **device**. The brace supports are separated by a greater width at their lower portion than at their upper portion. Intermediating the disparity between these separating widths is an intermediate portion that slants inwardly and acts as a shock-absorbing spring to provide better performance by the anchor plate. The base pad of the anchor plate may have an undersurface of a non-skid material to provide greater friction with an underlying floor, thereby preventing slipping and sliding. In alternative embodiments of the present invention, side reinforcing ridges may extend forwardly from the lower forward portions of the brace supports to provide greater support to the brace supports. A rear extension may also provide greater stability. Pivot holes present at the top of the brace supports provide means by which the associated abdominal **exercise** **device** may be bolted or otherwise pivotally attached to the anchor plate. The pivot hole is located off-center with respect to the base pad, generally rearwardly rearward of the center of base pad, to provide greater stability and performance.

Classifications:
International (IPC 8-9): A63B23/02 (Advanced/Invention); A63B23/00 (Core/Invention)
International (IPC 1-7): A63B23/02
CPC: A63B23/0211 A63B21/4047
European: A63B23/02A2 A63B23/035G
US: 482/132 482/140 482/142



Family:

Publication number	Publication date	Application number	Application date
US5728035 A	19980317	US19960642467	19960503

Priority:
US19960642467 19960503

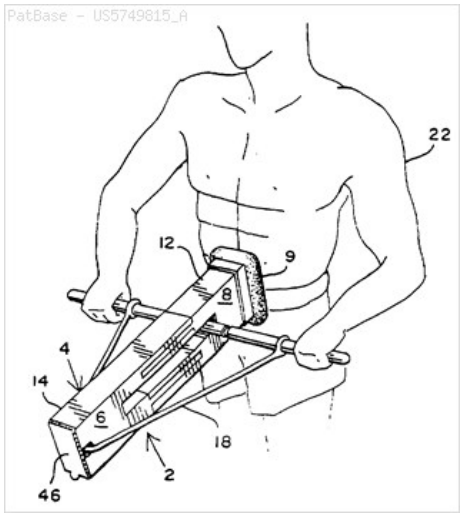
Probable Assignee: GUTHY RENKER CORP
Assignee(s): (std)**:** GUTHY RENKER CORP
Assignee(s): UNION BANK OF CALIFORNIA NA ; UNION BANK OF CALIFORNIA NA ADMINISTRATIVE AGENT A ; UNION BANK OF CALIFORNIA NA ADMINISTRATIVE AGENT AS
Inventor(s): (std)**:** SANDS LEONARD I

12) Family number: 10798715 (US5749815A)

Title: PORTABLE **EXERCISE** **DEVICE**

Abstract: Source: US5749815A This invention is concerned with a portable **exercise** **device** which can readily be broken down into its component parts for storage. Regardless of its portability the portable **exercise** **device** is capable of providing the user with a good workout. This portable **exercise** **device** has a two segment main body section which can be readily assembled and disassembled. When assembled the main body section incorporates an elongated groove into which is positioned a limb. One end of the main body section further incorporates a U shaped groove into which is positioned an elastic band. The ends of the elastic band are looped. These looped ends are positioned around the limb on opposite sides of the main body section. The other end of the main body section is fitted with a cushion. In operation the user positions the cushion of the portable **exercise** **device** against his midriff. The uses then grips the opposite ends of the limb with both hands and draws the limb towards his midriff. The movement of the limb in the groove of the main body section is restrained by the elastic band. The movement of the limb against the tension of the elastic band provides **exercise** to the user. In the preferred embodiment the main body section and the limb are formed from a polymeric material. Further in the preferred embodiment the segmented parts of the main body section are secured to each other by a tongue and groove arrangement.

Classifications:
International (IPC 8-9): A63B21/02 A63B21/055 A63B23/02 A63B23/12 (Advanced/Invention); A63B23/00 A63B23/02 A63B23/035 A63B23/12 (Advanced/Non-invention); A63B21/02 A63B23/035 (Core/Invention); A63B23/00 (Core/Non-invention)
International (IPC 1-7): A63B21/02 A63B21/055 A63B23/02
CPC: A63B21/4033 A63B21/4035 A63B23/12 A63B21/0442 A63B21/0557 A63B23/0211 A63B2208/0204
European: A63B23/02A2 A63B23/12 K63B208/02B K63B21/04C K63B21/055D4 K63B23/12
US: 482/121 482/122 482/126 482/132



Family:

Publication number	Publication date	Application number	Application date
CA2233427 AA	19981130	CA19982233427	19980327
DE19815494 A1	19981203	DE19981015494	19980407
FR2763856 A1	19981204	FR19980004443	19980409
GB2325628 A1	19981202	GB19980007008	19980402
GB9807008 A0	19980603	GB19980007008	19980402
JP11000416 A2	19990106	JP19980115891	19980413
KR19980086607 A	19981205	KR19980013382	19980415
US5749815 A	19980512	US19970865728	19970530

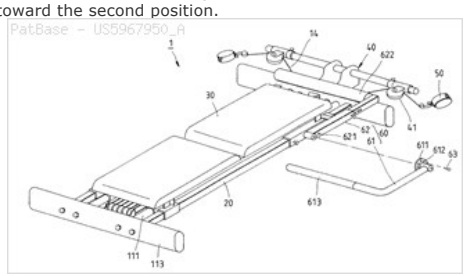
Priority:
US19970865728 19970530 CA19982233427 19980327

Probable Assignee: LIPPS JOHN D KENT OHIO US
Assignee(s): (std): LIPPS JOHN D ; LIPPS JOHN DOUGLAS
Assignee(s): JOHN DOUGLAS LIPPS ; LIPPS JOHN D KENT OHIO US
Inventor(s): (std): LIPPS JOHN D ; LIPPS JOHN DOUGLAS
Inventor(s): JOHN DOUGLAS LIPPS
Agent(s): MACRAE AND CO

13) Family number: 16957174 (US5967950A)

Title: LOAD MECHANISM OF BODY BUILDING **DEVICE**

Abstract: Source: US5967950A A load mechanism is intended for use in a body building **device** and is composed of a frame, a slide member mounted on the frame such that the slide member is capable of sliding back and forth between a first position and a second position along a fixed path, at least one resilient member fastened at both ends thereof with the slide member and the frame for holding the slide member at the first position, and at least one pull cord for actuating the slide member to slide on the frame toward the second position.



Classifications:
International (IPC 8-9): A63B21/055 A63B23/02 (Advanced/Invention);
A63B21/00 A63B23/12 (Advanced/Non-invention);
A63B21/02 A63B23/00 (Core/Invention);
A63B21/00 A63B23/035 (Core/Non-invention)
International (IPC 1-7): A63B21/02 A63B23/02 A63B23/035
CPC: A63B21/4013 A63B21/0552 A63B21/00065 A63B21/0428 A63B21/151 A63B21/154 A63B21/156 A63B23/0211 A63B23/03575 A63B23/12 A63B2208/0204 A63B2208/0233 A63B2208/0247 A63B2208/0252 A63B21/4029 A63B21/4035 A63B21/4043 A63B23/0355 A63B23/1209 A63B23/1263
European: A63B21/055D A63B21/14A7A A63B21/15F A63B21/15F6 A63B21/15F6P A63B23/02A2 A63B23/035G K63B208/02B K63B208/02E2 K63B208/02F1 K63B208/02F2 K63B21/00F4 K63B21/04B6 K63B23/12
US: 482/110 482/130 482/132 482/142 482/96

Family:

Publication number	Publication date	Application number	Application date
DE29804001 U1	19980528	DE19982004001U	19980306
US5967950 A	19991019	US19980031070	19980226

Priority:

US19980031070 19980226 DE19982004001U 19980306

Probable Assignee: HSU HANK SANCHUNG TAIPEH TW

Assignee(s): (std): HSU HANK

Assignee(s): HSU HANK SANCHUNG TAIPEH TW

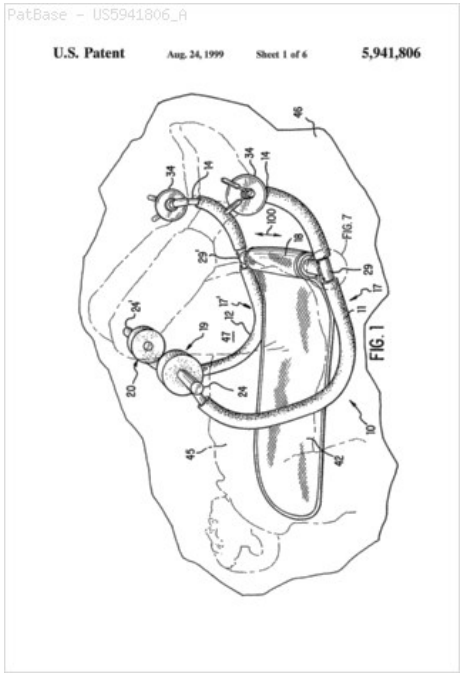
Inventor(s): (std): HSU HANK

14) Family number: 11681551 (US5941806A)

Title: **Exercise** **device**

Abstract: Source: US5941806A An **exercise** **device** is provided which rockingly interfaces with a support surface for performing a number of **exercises** and particularly is directed to performing reverse crunches. The **exercise** **device** includes a light easily foldable frame having a pair of laterally spaced curved rails movable by the action of the user's thighs when the user is positioned in a supine position on a support surface between the curved rails. The **exercise** **device** includes arcuate and rocker members which may be rotatably folded to provide a low volume storage mechanism space.

Classifications:
International (IPC 8-9): A63B23/02 (Advanced/Invention); A63B21/06 (Advanced/Non-invention)
International (IPC 1-7): A63B23/02
CPC: A63B23/0222 A63B21/06 A63B23/0233 A63B2208/0247 A63B2208/0252 A63B2210/50
European: A63B23/02A6 A63B23/035G K63B208/02F1 K63B208/02F2 K63B21/06 K63B210/50 K63B23/02B
US: 482/132 482/139 482/140 482/93 482/95



Family:

Publication number	Publication date	Application number	Application date
US5941806 A	19990824	US19970832114	19970403

Priority:
US19970832114 19970403

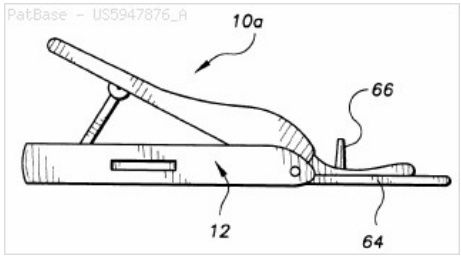
Probable Assignee: TRISTAR PRODUCTS INC
Assignee(s): (std): OLSCHANSKY BRAD ; OLSCHANSKY SCOTT
Assignee(s): SANDIA CORP ; TRISTAR PRODUCTS INC
Inventor(s): (std): OLSCHANSKY BRAD ; OLSCHANSKY SCOTT

15) Family number: 11696140 (US5947876A)

Title: Abdominal range of motion **exercise**

Abstract: Source: US5947876A An **exercise** **device** comprising a carrying case/base unit, an adjustable inclined back support member; a retractable buttocks support; and a pair of trackways, one pivotally mounted to the carrying case/base unit on either side of the retractable buttocks support. Each of the pair of trackways includes a handle slidable along a respective trackway that is biased in a first direction by an elastomeric resistance band.

Classifications:
International (IPC 8-9): A63B23/02 (Advanced/Invention)
International (IPC 1-7): A63B23/02
CPC: A63B23/0211 A63B2208/0233 A63B2208/0238 A63B2208/0252 A63B2210/50
European: A63B23/02A2 A63B23/035G K63B208/02E2 K63B208/02E4 K63B208/02F2 K63B210/50
US: 482/123 482/132 482/140 482/142



Family:

Publication number	Publication date	Application number	Application date
US5947876 A	19990907	US19980006464	19980113

Priority:

US19970036266P 19970122 US19980006464 19980113

Probable Assignee: WILLEY II J WARREN

Assignee(s): (std)**:** WILLEY II J WARREN

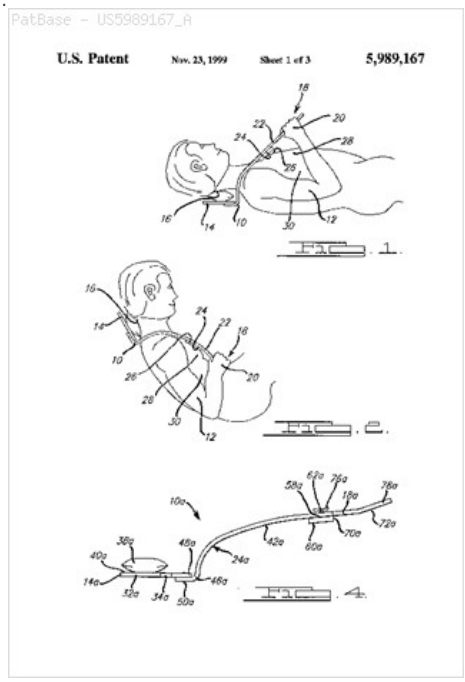
Inventor(s): (std)**:** WILLEY II J WARREN

16) Family number: 11869935 (US5989167A)

Title: Abdominal **exercise** neck support

Abstract: Source: US5989167A An **exercise** **device** is provided including a head, neck and thoracic supporting member spaced apart from a force receiving or hand grip member. A connecting member extends at a pre-selected angle between the head, neck and thoracic supporting member and the hand grip member. The connecting member includes at least one pivot for cooperating with a portion of a user to provide leveraging of the head, neck and thoracic supporting member via the hand grip member.

Classifications:
International (IPC 8-9): A63B23/02 (Advanced/Invention)
International (IPC 1-7): A63B23/02 A63B71/08
CPC: A63B21/0004 A63B23/0211
European: A63B21/00D A63B23/02A2 A63B23/035G
US: 482/10 482/131 482/132 482/139 482/140 482/92 482/95 5/636 5/637 5/643 601/39 606/240



Family:

Publication number	Publication date	Application number	Application date
CN1229686 A	19990929	CN19991003690	19990312
US5989167 A	19991123	US19980046775	19980313

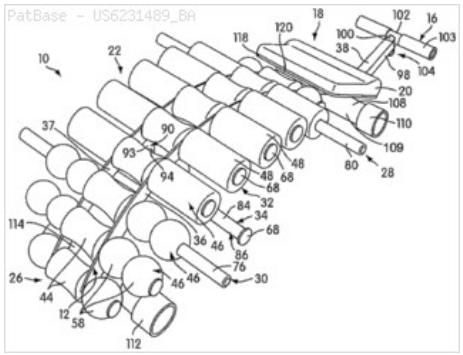
Priority:
US19980046775 19980313

Probable Assignee: MANLEY GOLF INC
Assignee(s): (std): MANLEY GOLF INC ; MANLEY JAMES JOSEPH ; MANLEY MICHAEL PATRICK
Inventor(s): (std): MANLEY JAMES JOSEPH ; MANLEY MICHAEL PATRICK
Inventor(s): MICHAEL PATRICK MANLEY ; JAMES JOSEPH MANLEY

17) Family number: 15416108 (US6231489B)

Title: **DEVICE** FOR MULTIPLE TORSO **EXERCISES**

Abstract: Source: US6231489B An **exercise** **device** comprising a frame structure constructed and arranged to be supported in an operative position on a horizontal surface so as to extend longitudinally therealong. An **exercise** support is fixedly mounted on one longitudinal end of the frame structure in a position spaced above the horizontal surface when the frame structure is supported thereon in an operative position. The **exercise** support is constructed and arranged to enable a user to engage the user's feet with the **exercise** support or grip the user's hands on the **exercise** support. A seat is carried on the one end portion of the frame structure in longitudinally spaced relation with respect to the **exercise** support. A plurality of rollers made of yieldable material is rotatably supported on the frame structure in an upwardly arched array extending longitudinally upwardly from the seat and arching downwardly toward an opposite longitudinal end of the frame structure to rollingly support a user thereon. The seat has a downwardly inclined position enabling a user to accomplish back decompression, lower back or side stretches while supported supine, prone or on a side respectively on the seat and the rollers with the user's feet engaging with the **exercise** support or to accomplish lower back strengthening **exercises** while supported prone on the seat and rollers with the user's hands gripping the **exercise** support with outstretched arms.



Classifications:
International (IPC 8-9): A63B21/068 A63B23/02 (Advanced/Invention); A63B23/00 (Advanced/Non-invention); A63B21/06 A63B23/00 (Core/Invention)
International (IPC 1-7): A63B26/00
CPC: Y10S482/907 A63B21/068 A63B23/0211 A63B23/0233 A63B2023/006 A63B2210/50
European: A63B21/068 A63B23/02A2 A63B23/02B A63B23/035G K63B210/50 K63B23/00B
US: 482/132 482/142 482/907

Family:

Publication number	Publication date	Application number	Application date
US6231489 BA	20010515	US19990317193	19990524

Priority:
US19990317193 19990524

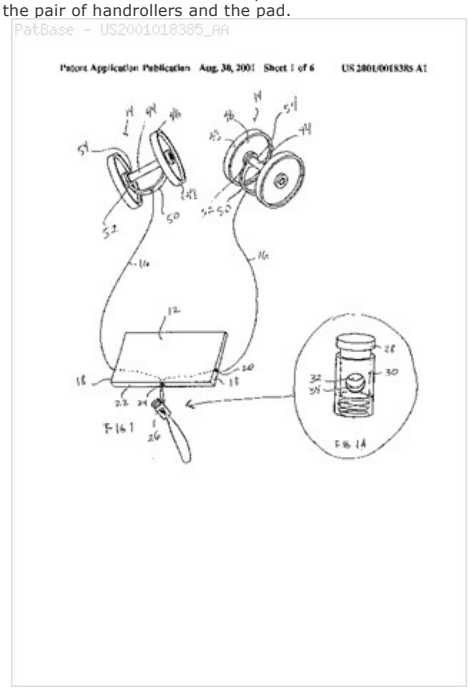
Probable Assignee: STAMINA PRODUCTS INC
Assignee(s): (std): STAMINA PRODUCTS INC
Inventor(s): (std): BRUGMAN MARJOLEIN ; LIN NEWTON ; MCBRIDE ROBERT W

18) Family number: 19334333 (US2001018385A)

Title: **Exercise** **device**

Abstract: Source: US2001018385A An **exercise** **device** having an elongate, substantially rigid pad. The **exercise** **device** also includes a pair of handrollers, each handroller comprising a handgrip supported between a pair of wheels. The **device** also includes a pair of stretchable tensioning members. Each of the tensioning members interconnects a respective one of the pair of handrollers and the pad.

Classifications:
International (IPC 8-9): A63B21/055 A63B21/072 A63B22/20 A63B23/02 (Advanced/Invention); A63B21/04 (Advanced/Non-invention)
International (IPC 1-7): A63B21/00 A63B21/02 A63B21/08
CPC: A63B21/0004 A63B21/00069 A63B21/023 A63B21/04 A63B21/0428 A63B21/055 A63B21/0557 A63B21/072 A63B22/20 A63B23/0211 A63B23/0233 A63B2071/027 A63B2208/0204 A63B2208/0219 A63B2208/0223 A63B2208/0238 A63B2208/0295
European: A63B21/00D A63B21/055 A63B21/072 A63B22/20 A63B23/00W A63B23/02A2
US: 482/121 482/123 482/123P 482/126 482/126S 482/129 482/132



Family:

Publication number	Publication date	Application number	Application date
AU2002241994 AA	20020806	AU20020241994	20020124
US2001018385 AA	20010830	US20010770533	20010125
US6629913 BB	20031007	US20010770533	20010125
WO02058797 A2	20020801	WO2002US02491	20020124
WO02058797 A3	20031030	WO2002US02491	20020124
WO02058797 C2	20031218	WO2002US02491	20020124

Priority:
US20010770533 20010125 WO2002US02491 20020124

Probable Assignee: CID INC

Assignee(s): (std)**:** CHEN SHANE ; CID INC

Inventor(s): (std)**:** CHEN SHANE

Inventor(s): SHANE CHEN

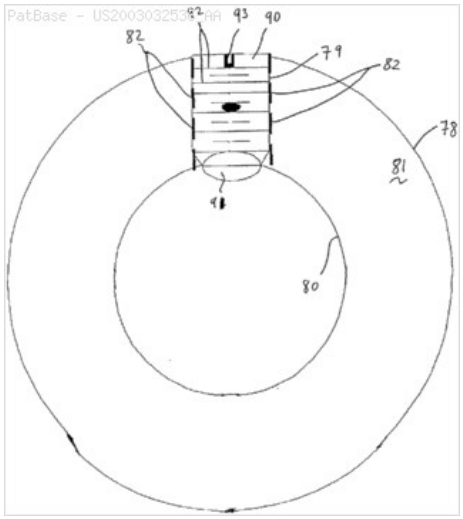
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK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

19) Family number: 28065292 (US2003032536A)

Title: PORTABLE **EXERCISE** **DEVICE**

Abstract: Source: US2003032536A A portable **exercise** **device** for exercising the abdominal muscles is disclosed. The **device** includes a wheel and a handle. The handle is formed from two handle parts that are releasably attachable to one another to form a bearing surface upon which the wheel is mounted. Various forms of attachment mechanisms are disclosed which lock the **device** into an **exercise** position and bear the load on the **device** when used for exercising. The portable **exercise** **device** provides a strong, lightweight, easy to use **device** that can be broken down into three component parts for storage and transportation and easily assembled to provide a **device** for exercising the abdominal muscles.

Classifications:
International (IPC 8-9): A63B22/20 A63B23/02 (Advanced/Invention); A63B22/00 A63B23/00 (Core/Invention)
International (IPC 1-7): A63B21/00 A63B26/00 A63B71/00
CPC: A63B22/20 A63B23/0211
European: A63B22/20 A63B23/00W A63B23/02A2
US: 482/132 482/132S 482/140 482/140P



Family:

Publication number	Publication date	Application number	Application date
US2003032536 AA	20030213	US20020214061	20020807

Priority:
US20010310454P 20010808 US20020214061 20020807

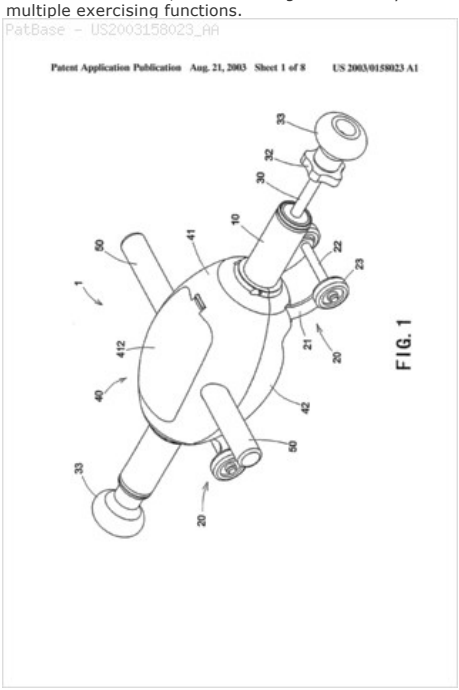
Probable Assignee: ATTITUDE TECHNOLOGIES INC
Assignee(s): ATTITUDE TECHNOLOGIES INC ; COTA FRANK ; MABE DONALD E
Inventor(s): (std): COTA FRANK ; MABE DONALD E

20) Family number: 28995507 (US2003158023A)

Title: EXERCISING **DEVICE**

Abstract: Source: US2003158023A An exercising **device** includes a tube, two wheel frames, a rod, and a housing. The tube has an inner wall provided with an elastic member, and the rod is extended into the tube to compress the elastic member. Thus, the exercising **device** may be used to **exercise** the muscles of the user's arms, chest and abdomen, thereby providing multiple exercising functions.

Classifications:
International (IPC 8-9): A63B22/20 A63B23/02 A63B23/12 (Advanced/Invention); A63B21/05 A63B21/06 (Advanced/Non-invention); A63B22/00 A63B23/00 A63B23/035 (Core/Invention); A63B21/02 A63B21/06 (Core/Non-invention)
International (IPC 1-7): A63B21/00 A63B21/02 A63B26/00 A63B71/00
CPC: A63B23/12 A63B21/0004 A63B21/00185 A63B21/05 A63B21/0608 A63B21/4045 A63B21/4049 A63B22/20 A63B23/0211
European: A63B21/00D A63B21/00D2 A63B21/00U A63B21/14M4 A63B21/14M8 A63B22/20 A63B23/00W A63B23/02A2 A63B23/12 K63B21/05 K63B21/06B
US: 482/126 482/126P 482/132 482/132S 482/14 482/140 482/140S



Family:

Publication number	Publication date	Application number	Application date
US2003158023 AA	20030821	US20020077866	20020220

Priority:
US20020077866 20020220

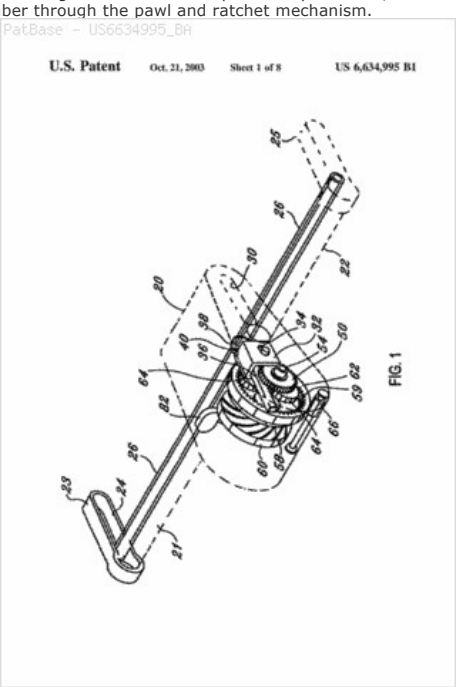
Probable Assignee: TSAI JAO HSING
Assignee(s): (std): YU HUI NAN
Assignee(s): TSAI JAO HSING
Inventor(s): (std): YU HUI NAN

21) Family number: 29216069 (US6634995B)

Title: MANUALLY OPERATED STRETCHING APPARATUS

Abstract: Source: US6634995B An **exercise** **device** for stretching the lower back and leg muscles of a user includes a flexible footrest and a handle **device**. The handle **device** is designed to be grasped by the hands of a user and the cable is attached, at one end, to a footrest or fixed location. The other end of the cable is engaged by a rotatable member in the handle **device**; and a pawl and ratchet mechanism in the handle **device** rotates the rotatable member to draw the cable member into the **device**. A reciprocating lever member is operated by the user, grasping the handle member to effect incremental stepwise rotation of the rotatable member through the pawl and ratchet mechanism.

Classifications:
International (IPC 8-9): A63B23/02 (Advanced/Invention);
A63B21/00 A63B23/00 (Advanced/Non-invention);
A63B23/00 (Core/Invention);
A63B21/00 (Core/Non-invention)
International (IPC 1-7): A63B21/00
CPC: Y10S482/907 A63B21/153 A63B21/157 A63B23/0233 A63B2023/006
European: A63B21/15F4 A63B21/15G A63B23/02B A63B23/035G K63B23/00B
US: 482/132 482/66 482/907 482/92



Family:

Publication number	Publication date	Application number	Application date
US6634995 BA	20031021	US20010894951	20010628

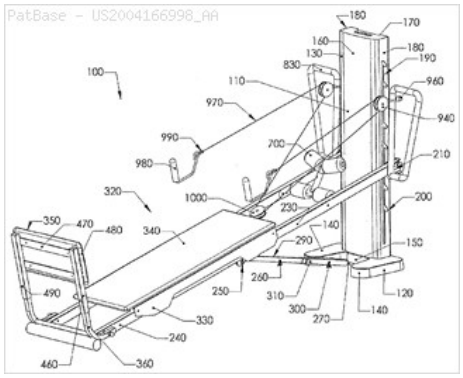
Priority:
US20010894951 20010628

Probable Assignee: STRETCH POWER LLC
Assignee(s): (std)**:** STRETCH POWER LLC
Inventor(s): (std)**:** REED MICHAEL S

22) Family number: 30828317 (US2004166998A)

Title: **EXERCISE** **DEVICE**

Abstract: Source: US2004166998A A collapsible **exercise** **device** includes a vertical support member, first and second sets of rails pivotally connected to each other, and a strut interconnecting the vertical support member and the rails. A user support platform engages the rails. First and second combination pulley-support and pull-up bars are pivotally connected to the first end of the first set of rails for movement between at least a substantially vertical position and a substantially horizontal position. First and second pulleys are slidably connected to bars and receive a cable, which is also connected to the user support platform. The **exercise** **device** is foldable such that the vertical support member, the rails and the strut are substantially parallel to each other; and the rails are extendable from the vertical support member and are alignable such that the user support platform is rollable along the first and second pulleys.



Classifications:
International (IPC 8-9): A63B21/00 A63B21/06 A63B21/068 A63B23/02 A63B23/035 A63B24/00 A63B26/00 (Advanced/Invention);
A63B21/00 A63B21/06 A63B23/00 A63B23/035 A63B26/00 (Core/Invention)
International (IPC 1-7): A63B21/02 A63B21/062 A63B21/068 A63B23/00
CPC: A63B22/205 A63B24/00 Y10S482/908 A63B23/0222 A63B23/0233 A63B2208/0219 A63B22/0002 A63B22/0605 A63B22/0012 A63B22/0694 A63B2022/0652 A63B21/015 A63B23/0355 A63B23/12 A63B2208/0252 A63B2210/58 A63B23/03533 A63B21/062 A63B21/0622 A63B21/4035 A63B21/4043 A63B21/154 A63B21/156 A63B21/068 A63B22/0007 A63B22/001 A63B22/0023 A63B22/0087 A63B23/03575 A63B23/1218 A63B2210/50 A63B2225/093 A63B2225/107 A63B2208/12 A63B21/4029 A63B21/4031 A63B21/4045 A63B23/03525 A63B23/1209 A63B23/03541
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Family:

Publication number	Publication date	Application number	Application date
AU2004216195 AA	20040910	AU20040216195	20040224
AU2004216195 BB	20080612	AU20040216195	20040224
EP1601420 A2	20051207	EP20040714122	20040224
EP1601420 A4	20101020	EP20040714122	20040224
HK1080412 A3	20060512	HK20060103327	20060314
NZ542479 A	20071026	NZ20040542479	20040224
TW200738295 A	20071016	TW20070110084	20070323
TWI425966 B	20140211	TW20070110084	20070323
US2004166998 AA	20040826	US20030376044	20030226
US2004248713 AA	20041209	US20040785541	20040224
US2007203004 AA	20070830	US20070688539	20070320
US2008161173 AA	20080703	US20080049501	20080317
US2008200317 AA	20080821	US20080111310	20080429
US2009181834 AA	20090716	US20090405489	20090317
US2010311555 AA	20101209	US20100857667	20100817
US2011009249 AA	20110113	US20100841894	20100722
US2013090211 AA	20130411	US20120689260	20121129
US6921355 BB	20050726	US20030376044	20030226
US7270628 BB	20070918	US20040785541	20040224
US7503880 BB	20090317	US20070688539	20070320
US7766801 BB	20100803	US20090405489	20090317
US7775950 BB	20100817	US20080111310	20080429
US8075457 BB	20111213	US20100857667	20100817
US8323157 BB	20121204	US20100841894	20100722
US8696528 BB	20140415	US20120689260	20121129
WO04075998 A2	20040910	WO2004US05342	20040224
WO04075998 A3	20050721	WO2004US05342	20040224
WO07117924 A2	20071018	WO2007US64618	20070322
WO07117924 A3	20071227	WO2007US64618	20070322

Priority:

US20030376044 20030226
US20030482199P 20030623
US20080049501 20080317
US20070896592P 20070223
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US20080111310 20080429
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US20100857667 20100817

Probable Assignee: TOTAL GYM GLOBAL CORP

Assignee(s): (std): CAMPANARO JOY L ; CAMPANARO THOMAS J ; ENGINEERING FITNESS CORP ; ENGINEERING FITNESS INT ; ENGINEERING FITNESS INT C ; WESTFALL LARRY ; MCMURRAY DOUGLAS DALE ; ENGINEERING FITNESS INT CORP ; MCCUTCHEON DAN ; TOTAL GYM GLOBAL CORP ; MAHON CHARLES JOSEPHN

Assignee(s): MC MURRAY DALE ; TOTALGYM GLOBAL CORP ; ENGINEERING FITNESS INTIONAL

Inventor(s): (std): CAMPANARO THOMAS J ; MAHON CHARLES JOSEPH ; MAHON CHARLES JOSEPHN ; MC MURRAY DALE ; MCCUTCHEON DAN ; CAMPANARO JOY L ; MCMURRAY DOUGLAS D ; MCMURRAY DOUGLAS DALE ; WESTFALL LARRY

Inventor(s): CAMPANARO JOY ; THOMAS J CAMPANARO ; CAMPANARO THOMAS ; MCMURRAY DOUGLAS ; DOUGLAS DALE MCMURRAY ; JOY L CAMPANARO ; LARRY WESTFALL

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; PROCOPIO CORY HARGREAVES AND SAVITCH LLP; BEUERLE STEPHEN C; STEPHEN C

Designated states: AE AG AL AM 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 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 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 SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

23) Family number: 32176400 (US2005181916A)

Title: **EXERCISE** **DEVICE** AND METHOD

Abstract: Source: US2005181916A An **exercise** **device** includes an upper frame supporting a seat back, the seat back enabling support of a torso of a user. A lower seat includes a lower frame that is pivotally mounted to the upper frame. The lower frame includes front and rear support wheels for contact with a supportive surface; and an arcuate member is secured to the upper frame substantially opposite to the seat back. The **device** also includes a tension arm with a first end movably mounted to the upper frame and a second end movably supported on the supportive surface by a roller or wheel. A tension band is mounted at one end to the tension arm between the first and second ends of the tension arm and at its opposite end to the lower frame by an anchor bar, which is pivotally mounted to the lower frame.

Classifications:
International (IPC 8-9): A63B21/00 A63B23/02 A63B26/00 A63B71/00 (Advanced/Invention);
A63B21/00 A63B21/055 A63B21/06 (Advanced/Non-invention);
A63B21/00 A63B23/00 A63B26/00 A63B71/00 (Core/Invention);
A63B21/00 A63B21/02 A63B21/06 (Core/Non-invention)
International (IPC 1-7): A63B21/00 A63B26/00 A63B71/00
CPC: A63B21/0004 A63B21/00061 A63B21/0421 A63B21/055 A63B21/0552 A63B21/06 A63B21/159 A63B23/0222 A63B2071/025 A63B2071/027 A63B2208/0228
European: A63B21/00D A63B21/055D A63B21/15L A63B23/02A6
US: 482/132 482/132S 482/140 482/140P 482/142 482/142S

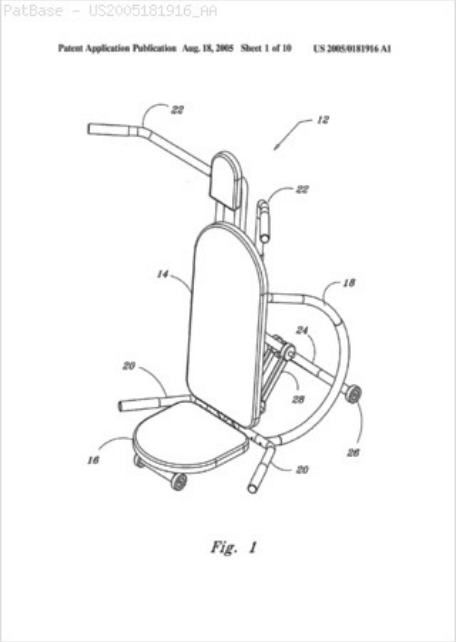


Fig. 1

Family:

Publication number	Publication date	Application number	Application date
US2005181916 AA	20050818	US20040778736	20040214

Priority:
US20040778736 20040214

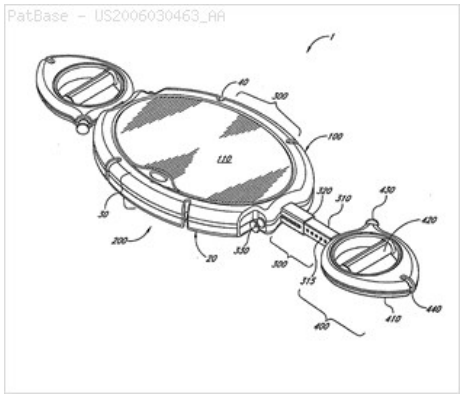
Probable Assignee: FENG LIN C
Assignee(s): FENG LIN C ; FROST HOWARD M
Inventor(s): (std): FENG LIN C ; FROST HOWARD M
Inventor(s): FENG LIN CHIN
Agent(s): HOWARD M FROST

24) Family number: 32612492 (US2006030463A)

Title: TRAINING **DEVICE** FOR EXERCISING MUSCLE GROUPS OF THE ENTIRE BODY

Abstract: Source: US2006030463A A training and/or **exercise** **device** and method for exercising muscle groups of the entire body is disclosed herein that is portable, easy to use, can work the muscles of the entire body, and does not have complicated integrating parts when in use. The **device** and method allows a free range of motion about a vertical axis without substantial resistance. The **device** allows a wide variety of movement using a single **device**, and particularly allows for balancing movements that are advantageous for strengthening the core. Further, the training **device** is particularly advantageous for use in a home gym and may be stored under a bed or within the overhead compartment of an airplane.

Classifications:
International (IPC 8-9): A63B21/02 A63B21/055 A63B22/16 (Advanced/Invention); A63B21/068 (Advanced/Non-invention);
A63B21/02 A63B22/00 (Core/Invention);
A63B21/06 (Core/Non-invention)
International (IPC 1-7): A63B23/02 A63B23/12 A63B26/00
CPC: A63B21/4035 A63B21/4043 A63B23/0355 A63B23/1209 A63B26/003 A63B21/00061 A63B21/00069 A63B21/0442 A63B21/068 A63B22/14 A63B22/20 A63B23/0211 A63B23/0233 A63B23/1236 A63B23/1245 A63B23/1281 A63B2023/0411 A63B2071/025 A63B2071/027 A63B2208/0204 A63B2208/0214 A63B2208/0257
European: A63B23/12D A63B23/12K A63B26/00B K63B208/02B K63B208/02C K63B208/02F4 K63B21/00F2 K63B21/00F6 K63B21/04C K63B21/068 K63B22/14 K63B22/20 K63B23/02A2 K63B23/02B K63B23/04B1S K63B23/12A6 K63B71/02S1R K63B71/02S1W2
US: 273/449 482/121 482/121S 482/123 482/123S 482/126 482/126P 482/132 482/141 482/146 482/34 482/79 482/95



Family:

Publication number	Publication date	Application number	Application date
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US2006160682 AA	20060720	US20060378704	20060317
US7601107 BB	20091013	US20060378704	20060317
US7658700 BB	20100209	US20040915126	20040809
WO06020524 A1	20060223	WO2005US27979	20050805

Priority:
US20040915126 20040809 US20060378704 20060317

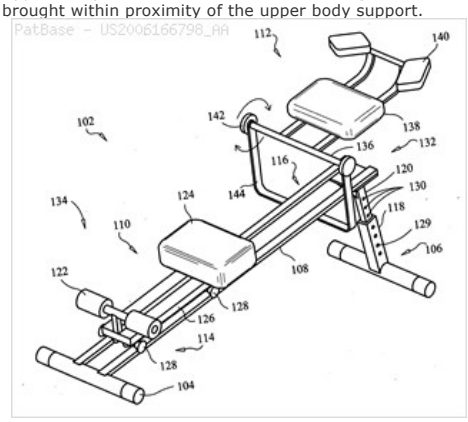
Probable Assignee: LUMALOY LLC
Assignee(s): (std)**:** LU JOHN ; LUMALOY LLC ; MALOY TATE
Inventor(s): (std)**:** LU JOHN ; MALOY TATE
Agent(s): KNOBBE MARTENS OLSON AND BEAR LLP
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KP KR KZ LC LK LR LS LT LU LV 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

25) Family number: 33153076 (US2006166798A)

Title: ABDOMINAL **EXERCISE** MACHINE

Abstract: Source: US2006166798A The abdominal **exerciser** of the present invention is an **exercise device** designed to work the abdominal and oblique muscle groups. The abdominal **exerciser** includes a sled that is supported by and slides or rolls along at least one track. The upper body support is ergonomically positioned higher than the sled, and fixed to a cross bar supported by the track. The cross bar is designed to rotate forward to simulate an abdominal **exercise** "crunch" motion when the knees are brought within proximity of the upper body support.

Classifications:
International (IPC 8-9): A63B21/00 A63B23/00 A63B23/02 A63B26/00 A63B71/00 (Advanced/Invention);
A63B21/00 A63B23/00 A63B26/00 A63B71/00 (Core/Invention)
CPC: A63B22/203 A63B22/205 Y10S482/907 A63B21/068 A63B21/0085 A63B21/02 A63B21/06 A63B23/0211 A63B23/0216 A63B23/0233 A63B2022/206 A63B2208/0219 A63B2210/50 A63B2225/093 A63B23/03525 A63B21/0615 A63B23/0417 A63B21/0552 A63B2208/0242 A63B21/062
European: A63B21/068 A63B22/20 A63B23/035C2 A63B23/035G K63B208/02C2 K63B208/02F K63B21/008C K63B21/02 K63B21/055D K63B21/06 K63B21/068 K63B21/06D K63B21/06F K63B210/50 K63B22/20 K63B22/20T6 K63B225/09H K63B23/02A2 K63B23/02A4 K63B23/02B K63B23/04B2
US: 482/132 482/140 482/140P 482/142 482/51 482/70 482/72 482/907



Family:

Publication number	Publication date	Application number	Application date
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BRPI0904662 A2	20110208	BR2009PI04662	20090915
CA2606676 AA	20071019	CA20072606676	20070215
CA2606676 C	20140909	CA20072606676	20070215
CN101534907 A	20090916	CN200780000125	20070215
CN101534907 B	20130410	CN200780000125	20070215
EP2111268 A2	20091028	EP20070750970	20070215
EP2111268 A4	20100113	EP20070750970	20070215
EP2111268 B1	20110921	EP20070750970	20070215
JP2010511425 T2	20100415	JP20090539235T	20070215
JP2013121550 A2	20130620	JP20130030642	20130220
JP5314596 B2	20131016	JP20090539235T	20070215
US2006166798 AA	20060727	US20050030420	20050105
US2007149370 AA	20070628	US20060607745	20061130
US2008070765 AA	20080320	US20070982856	20071105
US2008070766 AA	20080320	US20070983040	20071105
US2009018000 AA	20090115	US20080211800	20080916
US7232404 BB	20070619	US20050030420	20050105
US7455633 BB	20081125	US20060607745	20061130
US7485079 BB	20090203	US20070983040	20071105
US7585263 BB	20090908	US20070982856	20071105
US7611445 BB	20091103	US20080211800	20080916
WO08066559 A2	20080605	WO2007US04173	20070215
WO08066559 A3	20090430	WO2007US04173	20070215

Priority:

US20040541744P 20040105 US20050030420 20050105 US20050741104P 20051130
US20060607745 20061130 WO2007US04173 20070215 JP20090539235 20070215
US20070982856 20071105 US20070983040 20071105 US20080211800 20080916
JP20090539235T 20070215

Probable Assignee: AB COASTER HOLDINGS INC

Assignee(s): (std)**:** NELSON ROBERT W ; BROWN WALLACE ; TRISTAR PRODUCTS INC ; COASTER HOLDINGS LLC AB ; COASTER HOLDINGS INC AB ; COASLER HOLDINGS INC AB

Assignee(s): AB COASTER HOLDNGS INC ; AB COASLER HOLDINGS INC ; AB COASTER HOLDINGS INC ; AB COASTER HOLDINGS LLC ; AB COASTER HOLDINGS LLC1410 - 1007 ORANGE STREETWILMINGTONDE19801US

Inventor(s): (std)**:** BROWN WALLACE ; NELSON ROBERT W ; WALLACE BROWN

Inventor(s): NELSON ROBERT WUS ; ROBERT W NELSON ; BROWN WALLACEUS ; NELSON ROBERT

Agent(s): HILL AND SCHUMACHER; BENNETT JONES LLP; EISENFUEHR SPEISER AND PARTNER; WILSON GUNN; HOSHINO OSAMU; ONO SHINJIRO; TOMITA HIROYUKI; KOBAYASHI YASUSHI; MIYAMAE TORU; LAW OFFICE OF STEVEN B LEAVITT; CISLO AND THOMAS LLP; CISTO AND THOMAS LLP; CISLO DANIEL M

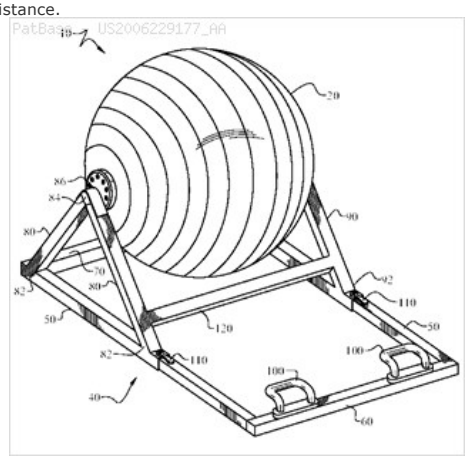
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MY MZ NA NE NG NI NL 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

26) Family number: 33462598 (US2006229177A)

Title: **EXERCISE** BALL MOUNTED FOR ROTATION

Abstract: Source: US2006229177A An **exercise** apparatus for developing strength and flexibility of the arms, legs, back and abdominals of the user. The **exercise** apparatus is an adaptation of the **exercise** ball or Swiss ball. The **exercise** apparatus includes a large, spherically-shaped, resilient ball, a frame and a pair of connectors, the connectors rotatably connecting the ball to the frame. Various attachments may be placed on the frame to allow the user to grasp the apparatus or lock their feet to prevent unwanted motion. A mechanism can also be included in the connectors allowing the user to selectively adjust the rotation to a desired degree of resistance.

Classifications:
International (IPC 8-9): A63B23/02 A63B26/00 A63B71/00 (Advanced/Invention); A63B23/00 A63B26/00 A63B71/00 (Core/Invention)
CPC: A63B2210/50 Y10S482/907 A63B21/00069 A63B21/015 A63B21/0442 A63B23/0211 A63B41/00 A63B2023/006 A63B2069/0062 A63B2071/027 A63B2208/0247 A63B2225/62 A63B21/4015
European: A63B21/015 A63B21/14A7F A63B23/035G K63B208/02F1 K63B21/00F6 K63B21/015 K63B21/04C K63B210/50 K63B225/62 K63B23/00B K63B23/02A2 K63B41/00 K63B69/00N4L K63B71/02S1W2
US: 482/132 482/140 482/140P 482/142 482/142P 482/142S 482/907 482/91



Family:

Publication number	Publication date	Application number	Application date
CN101262911 A	20080910	CN200680019939	20060411
CN101262911 B	20110323	CN200680019939	20060411
US2006229177 AA	20061012	US20050163448	20051019
US2007015645 AA	20070118	US20060532673	20060918
US2008058184 AA	20080306	US20070855346	20070914
US7118517 BA	20061010	US20050163448	20051019
US7311644 BB	20071225	US20060532673	20060918
US7476189 BB	20090113	US20070855346	20070914
WO06110727 A2	20061019	WO2006US13449	20060411
WO06110727 A3	20070426	WO2006US13449	20060411

Priority:

US20050594463P 20050411 US20050163448 20051019 WO2006US13449 20060411 US20060532673 20060918 US20070855346 20070914

Probable Assignee: HALEZ LLC

Assignee(s): (std)**:** HALE FITNESS INC ; HALE THOMAS J ; HALEZ LLC

Inventor(s): (std)**:** HALE THOMAS J

Inventor(s): HALE THOMAS

Agent(s): SMITH HOPEN PA; MICHAEL M; SMITH AND HOPEN PA; SMITH RONALD E

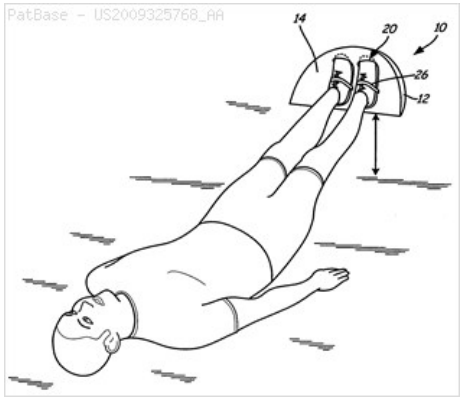
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH 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

27) Family number: 44153660 (US2009325768A)

Title: MULTIPURPOSE **EXERCISE** **DEVICE**

Abstract: Source: US2009325768A A multipurpose **exercise** **device** has a portable construction, and is geometrically optimized with arcuate and planar surfaces to allow a safe and effective workout of the abdominal muscles when attached to the feet of a user. Furthermore, the **device** enables a user to efficiently transition from an oblique abdominal **exercise** to a core abdominal **exercise** in a highly efficient, hassle-free manner.

Classifications:
International (IPC 8-9): A63B21/065 A63B26/00 (Advanced/Invention); A63B22/16 A63B23/02 (Advanced/Non-invention); A63B21/06 A63B26/00 (Core/Invention)
CPC: A63B26/00 A63B21/0004 A63B21/00047 A63B21/06 A63B21/0603 A63B21/0608 A63B21/4015 A63B23/0211 A63B23/0216 A63B23/0233 A63B23/0482 A63B2023/003
European: A63B21/00D A63B21/06A2 A63B21/14A7F A63B26/00 K63B21/00E K63B21/06 K63B21/06B K63B23/00A K63B23/02A2 K63B23/02A4 K63B23/02B K63B23/04E
US: 482/105 482/105P 482/132 482/140 482/140S 482/141 482/79



Family:

Publication number	Publication date	Application number	Application date
US2009325768 AA	20091231	US20090459322	20090630
US8226533 BB	20120724	US20090459322	20090630

Priority:
US20080133524P 20080630 US20090459322 20090630

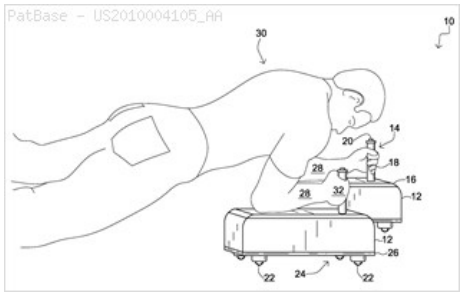
Probable Assignee: IUNGHUHN JERROD L
Assignee(s): (std): IUNGHUHN JERROD L ; WESSELS CHAD D
Inventor(s): (std): IUNGHUHN JERROD L ; WESSELS CHAD D
Agent(s): KINNEY AND LANGE PA

28) Family number: 44210915 (US2010004105A)

Title: **EXERCISE** **DEVICE** AND METHOD OF USE

Abstract: Source: US2010004105A There is an exercising **device**, and a method of use, configured to perform upper body and abdominal type **exercise**. The **exercise** **device** includes a pad member configured to support a forearm of a user. The **exercise** **device** also includes a handle extending from a top surface of the pad member about a front end of the pad member and configured to provide a grip for a hand. In addition, the **exercise** **device** includes a selectably coupleable attachment member coupled to a bottom surface of the pad member and configured to alter a movement characteristic of the **device** when in operation. The selectably coupleable attachment member includes a plurality of wheels. The **exercise** **device** further includes a tongue and groove attachment member configured to selectably couple the attachment member to the pad member.

Classifications:
International (IPC 8-9): A63B21/00 A63B22/20 A63B23/02 (Advanced/Invention); A63B22/00 A63B23/00 (Core/Invention)
CPC: A63B21/4033 A63B21/4035 A63B21/4043 A63B23/03541 A63B23/1236 A63B23/12 A63B21/068 A63B22/20 A63B23/0211 A63B2208/0295
European: A63B22/20 A63B23/12 K63B208/02M K63B21/068 K63B23/02A2
US: 482/132 482/132P 482/140



Family:

Publication number	Publication date	Application number	Application date
US2010004105 AA	20100107	US20090493320	20090629
US7972251 BB	20110705	US20090493320	20090629

Priority:
US20080077583P 20080702 US20090493320 20090629

Probable Assignee: PEDDAR JEFFREY
Assignee(s): (std): PEDDAR JEFFREY
Inventor(s): (std): PEDDAR JEFFREY
Agent(s): ADVANTIA LAW GROUP; MICHAEL W

29) Family number: 44517221 (US2010062913A)

Title: ABDOMINAL **EXERCISE DEVICE**

Abstract: Source: US2010062913A An **exercise device** for the mid to lower body muscles comprising an inclined base, a base frame to support the base a first support bar and a second support bar, the first and the second support bar each having a mounting end and a support end, wherein the first support bar mounting end is pivotably attached to a first pivot point and the second support bar mounting end is pivotably attached to a second pivot point and the first and the second support bar support end are movably mounted on the perimeter of the base such that the first and the second support ends are movable through an arcuate path along the perimeter of the base a first knee pad pivotably attached to the first support bar at the first support bar support end; a second knee pad pivotably attached to the second support bar at the second support bar support end; and a handle attached to the front portion of the base frame. The **exercise device** may further comprise a crossbar removably attached to the first support bar and removably attached to the second support bar to temporarily immobilize the first and the second support bars relative to each other.

Classifications:
International (IPC 8-9): A63B21/00 A63B21/068 A63B21/22 A63B22/14 A63B22/20 A63B23/00 A63B23/02 A63B23/035 (Advanced/Invention);
A63B22/14 A63B23/02 (Advanced/Non-invention);
A63B21/00 A63B21/06 A63B23/00 (Core/Invention);
A63B23/02 A63B23/035 (Core/Non-invention);
A63B (Subclass/Invention)
International (IPC 1-7): A63B21/06 A63B21/068 A63B23/02
CPC: A63B21/068 A63B22/203 A63B23/0211 A63B23/0227 A63B23/0233 A63B2023/003 A63B2071/0072 A63B2208/0219 A63B2225/093 A63B21/00 A63B22/0061 A63B2210/50 A63B21/0085 A63B21/02 A63B21/06 A63B21/4047
European: A63B21/068 A63B23/035G K63B208/02C2 K63B21/00 K63B210/50 K63B22/00P8 K63B22/20T2 K63B225/09H K63B23/00A K63B23/02A2 K63B23/02A8 K63B23/02B K63B71/00P4
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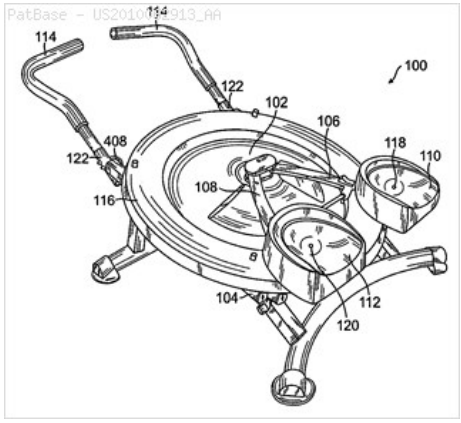

Family:

Publication number	Publication date	Application number	Application date
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AT532562 E	20111115	AT20090010993T	20090827
AU2009288743 AA	20100311	AU20090288743	20090827
AU2010100791 AD	20100819	AU20100100791	20100723
AU2010100791 BD	20100923	AU20100100791	20100723
AU2011100269 AD	20110414	AU20110100269	20110310
AU2011100269 BD	20110630	AU20110100269	20110310
AU2011100270 AD	20110414	AU20110100270	20110310
AU2011100270 BD	20110616	AU20110100270	20110310
AU2011100271 AD	20110414	AU20110100271	20110310
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BRPI1001381 A2	20110426	BR2010PI01381	20100312
CN201572488 U	20100908	CN2009201784777U	20090908
CN201783137 U	20110406	CN201020262752U	20090908
DK2163280 T3	20120227	DK20090010993T	20090827
EP2163280 A2	20100317	EP20090010993	20090827
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EP2163280 B1	20111109	EP20090010993	20090827
EP2446937 A1	20120502	EP20110187785	20090827
ES2375941 T3	20120307	ES20090010993T	20090827
IL211589 A0	20110531	IL20110211589	20110306
IN02066CN2011 A	20111202	IN2011CN02066	20110324
JP2011041791 A2	20110303	JP20100052082	20100309
JP2011098204 A2	20110519	JP20100258070	20101118
JP4630384 B1	20110209	JP20100052082	20100309
KR101185773 B1	20121002	KR20100018808	20100303
KR20100039316 A	20100415	KR20100018808	20100303
MX2010002360 A1	20110221	MX20100002360	20100226
NZ589008 A	20111125	NZ20090589008	20090827
NZ589464 A	20120330	NZ20090589464	20090827
TW201021878 A	20100616	TW20090129580	20090902
US2010062913 AA	20100311	US20080230898	20080908
US2010062914 AA	20100311	US20090545627	20090821
US2011166004 AA	20110707	US20110048711	20110315
US7927267 BB	20110419	US20090545627	20090821
US8105221 BB	20120131	US20080230898	20080908
US8323160 BB	20121204	US20110048711	20110315
WO10027436 A1	20100311	WO2009US04867	20090827

Priority:

US20080230898 20080908
WO2009US04867 20090826
JP20100052082 20100309
US20110048711 20110315
US20090545627 20090821
AU20090288743 20090827
AU20110100271 20110310
NZ20090589008 20090827
WO2009US04867 20090827
EP20090010993 20090827
AU20110100269 20110310

Probable Assignee: SPLANE ROBSONUS

Assignee(s): (std): ROB SPLANE ; ROBSON SPLANE ; SENPING LU ; SPLANE ROBSON

Assignee(s): SPLANE ROBSONUS ; LU SENPING

Inventor(s): (std): ROB SPLANE ; ROBSON SPLANE ; SENPING LU ; SPLANE ROBSON

Inventor(s): LU SENPING

Agent(s): GRIFFITH HACK; WALKER IP; PATENTANWAELTE WESTPHAL MUSSGNUG AND PARTNER; THE NATH LAW GROUP; NATH LAW GROUP; SAM; TECHLAW LLP; NATH GARY M

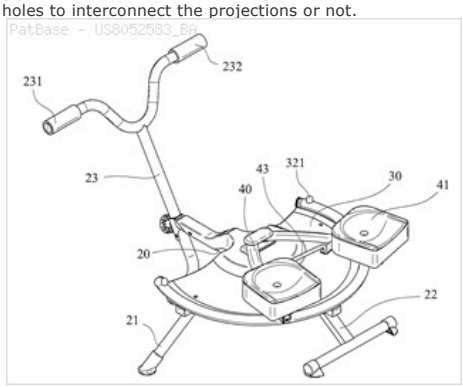
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY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

30) Family number: 48129405 (US8052583B)

Title: SWIVEL **EXERCISER**

Abstract: Source: US8052583B A swivel **exerciser** includes a base having two front legs, a rear leg, a head tube in a center of a front portion, and two spaced hand grips on a top end of the head tube. A sector-shaped plate on a top of the base includes two central pivot members. A curved rail is around a curved edge of the sector-shaped plate, with the rail being fixedly secured to the top of the base. Two pivotal arms are rearward splayed out of the pivot members respectively. Two knee plates are disposed on the other ends of the arms, and each includes a wheel disposed on the rail and adapted to move therealong. A projection is disposed at a joining portion of each arm and knee plate and includes a through hole. An inverted U-shaped bridge member is adapted to insert into the through holes to interconnect the projections or not.

Classifications:
International (IPC 8-9): A63B21/00 A63B21/068 A63B22/04 A63B22/14 A63B22/18 A63B23/02 A63B23/035 A63B23/04 (Advanced/Invention)
CPC: A63B21/068 A63B23/02 A63B23/03541 A63B22/14 A63B23/0211 A63B23/0227 A63B23/0233 A63B23/03525 A63B2023/003 A63B2208/0219 A63B21/4047
European: A63B23/035C2 A63B23/035C4S A63B23/035G K63B208/02C2 K63B22/14 K63B23/00A K63B23/02A2 K63B23/02A8 K63B23/02B
US: 482/132 482/96 D21/662



Family:

Publication number	Publication date	Application number	Application date
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FR2962918 A3	20120127	FR20100059658	20101123
FR2962918 B1	20120817	FR20100059658	20101123
FR2962918 B3	20120817	FR20100059658	20101123
GB201111927 A0	20110824	GB20110011927	20110712
GB2482230 A1	20120125	GB20110011927	20110712
KR20120000679 U	20120201	KR20100011663U	20101112
TWM397267 Y	20110201	TW201002138 10U	20100720
US8052583 BA	20111108	US20100944861	20101112
US8052583 K1	20140114	US20100944861	20101112

Priority:
TW20100213810U 20100720 KR20100011663U 20101112

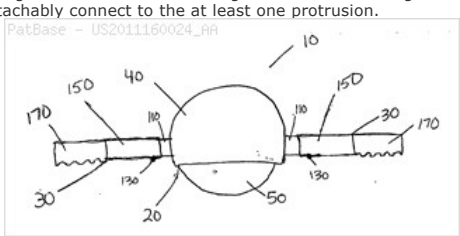
Probable Assignee: CHU CHENG KANG
Assignee(s): (std): CHENG KANG CHU ; CHU CHENG KANG ; TSAI JAO HSING ; ZHU ZHEN GANG
Inventor(s): (std): TSAI JAO HSING ; CAI RAO XING
Inventor(s): JAO HSING TSAI
Agent(s): CABINET CHAILLOT

31) Family number: 49151879 (US2011160024A)

Title: ABDOMINAL **EXERCISE** **DEVICE**

Abstract: Source: US2011160024A An **exercise** **device** that allows a user to strengthen the entire anatomical core muscles with a lightweight, compact, and portable design. A **device** includes a housing that is substantially spherical in shape with a hollow portion therein. The housing has at least one protrusion. A ball that is substantially spherical in shape is positioned within said hollow portion such that said housing at least partially encloses the ball therein. A plurality of bearings are disposed between said housing and said ball. The bearings contact the housing and the ball, thereby allowing said housing to rotate about said ball. A plurality of handles detachably connect to the at least one protrusion.

Classifications:
International (IPC 8-9): A63B21/00 A63B22/20 A63B23/02 (Advanced/Invention); A63B21/068 (Advanced/Non-invention)
CPC: A63B23/0211 A63B22/20 A63B2208/0219
European: A63B23/02A2 A63B23/035G K63B208/02C2 K63B22/20
US: 482/132 482/132P 482/141 482/95 601/120 601/131



Family:

Publication number	Publication date	Application number	Application date
US2011160024 AA	20110630	US20100979770	20101228
US8550965 BB	20131008	US20100979770	20101228

Priority:
US20090290697P 20091229 US20100979770 20101228

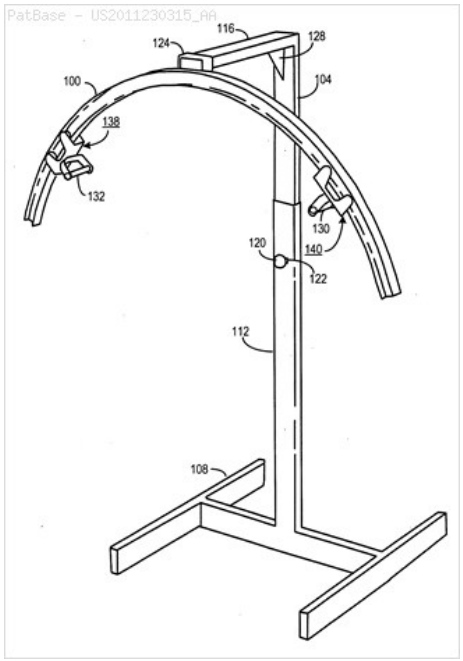
Probable Assignee: CANDELA ELIZABETH A
Assignee(s): (std)**:** CANDELA ELIZABETH A ; HEDENBERG RONALD J
Inventor(s): (std)**:** CANDELA ELIZABETH A ; HEDENBERG RONALD J
Agent(s): OHLANDT GREELEY RUGGIERO AND PERLE LLP

32) Family number: 49612919 (US2011230315A)

Title: **EXERCISE DEVICE**

Abstract: Source: US2011230315A An **exercise device** with an arc shaped track having a concave side that is mounted upon a support structure that supports the arc shaped track at a position in which the concave side of the arc faces downward and in which the arc shaped track can be fixed at a location centered above a user's head to extend to each side of the user. When in use, a track follower engages the track and moves along a length of the track to follow a course defined by the arc shape of the track. A handle is coupled to the track follower to be gripped by the user's hand to guide the user's side to side bends. This abstract is not to be considered limiting, since other embodiments may deviate from the features described in this abstract.

Classifications:
International (IPC 8-9): A63B21/06 A63B23/02 (Advanced/Invention)
CPC: A63B23/0227 A63B21/023 A63B21/062 A63B21/1636 A63B21/169 A63B21/4035 A63B21/4045 A63B23/03541 A63B2208/0204 A63B2225/093
European: A63B21/02B A63B21/06D A63B21/14K4H A63B21/14M4 A63B21/16D5 A63B23/02A8 A63B23/035C4S K63B208/02B K63B21/16W K63B225/09H
US: 482/101 482/132 482/135 482/139 482/40 482/904 482/907 482/92 482/94 482/94P



Family:

Publication number	Publication date	Application number	Application date
US2011230315 AA	20110922	US20100661376	20100316
US8246524 BB	20120821	US20100661376	20100316

Priority:
US20100661376 20100316

Probable Assignee: CASTILLO IVONNE
Assignee(s): (std): CASTILLO IVONNE
Inventor(s): (std): CASTILLO IVONNE
Agent(s): MILLER PATENT SERVICES; JERRY A

33) Family number: 49823570 (US2011263391A)

Title: METHOD AND APPARATUS FOR IMPROVING POSTURE

Abstract: Source: US2011263391A An apparatus for improving posture comprises a bar element and a pad element centered along the length of the bar element. The bar element is constructed from a weighty material so as to provide a significant and constant downwardly directed weight. The pad element is constructed from a relatively lightweight material as compared to the bar material, but has a very specific cervical curve-accommodating, outer pad diameter or outer pad radius of curvature. The outer pad diameter or outer pad radius of curvature substantially matches that of a normal cervical curve. Together, the radius of curvature of the pad element and the weight of the bar element provide the user with a weighted template against which the user may align the cervical portion of his or her spine and commence resistance muscle training against the downwardly directed weight for improving core muscle groups for improving and/or maintaining one's posture.

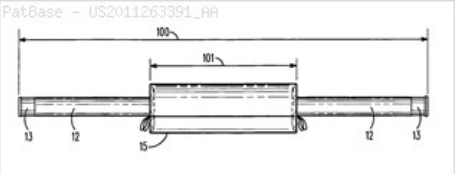
Classifications:

International (IPC 8-9): A61H1/00 A61H1/02 A63B21/00 A63B21/002 A63B21/02 A63B21/04 A63B21/045 A63B21/055 A63B21/06 A63B21/072 A63B23/02 A63B23/025 (Advanced/Invention)

CPC: A63B21/0557 A61H2201/1261 A61H1/0296 A63B21/0442 A63B21/0552 A63B21/0724 A63B23/0238 A63B21/06 A63B21/02 A63B21/045 A61H1/008

European: A63B21/072B A63B23/02B2

US: 1/1 482/121 482/132 482/93 482/93P 606/237



Family:

Publication number	Publication date	Application number	Application date
US2011263391 AA	20111027	US20100799346	20100422
US2014148852 AA	20140529	US20140161805	20140123
US2015246257 AA	20150903	US20150698981	20150429
US8672818 BB	20140318	US20100799346	20100422
US9044373 BB	20150602	US20140161805	20140123
WO11133739 A1	20111027	WO2011US33372	20110421

Priority:

US20100799346 20100422 US20140161805 20140123 US20150698981 20150429

Probable Assignee: WELCH ELIZABETH A

Assignee(s): (std)**:** WELCH ELIZABETH A

Inventor(s): (std)**:** WELCH ELIZABETH A

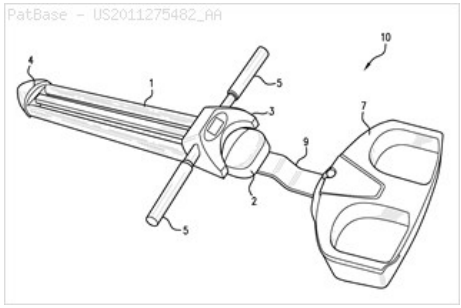
Agent(s): CARLA GANNON LAW; ROCKMAN HOWARD B

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 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

34) Family number: 49902320 (US2011275482A)

Title: INTERACTIVE **EXERCISE DEVICES**

Abstract: Source: US2011275482A An interactive **exercise device** includes a stationary base to which a first **exercise** implement is movably connected. A first resistance element is operably connected to the first **exercise** implement to provide resistance against at least some movements of the first **exercise** implement relative to the stationary base. An interactive motion guide that directs a user of the interactive **exercise device** to move the first **exercise** implement relative to the stationary base in an indicated manner is operably connected to the interactive **exercise device**. The interactive motion guide includes first and second electronic indicators to which a processor is operably connected. A non-transitory and tangible computer readable medium is operably connected to the processor and includes instructions to manipulate output of the first and second electronic indicators in response to movement of the first **exercise** implement relative to the stationary base.



Classifications:
International (IPC 8-9): A63B21/00 A63B21/012 A63B21/06 A63B22/20 A63B23/02 A63B71/00 A63B71/06 (Advanced/Invention)
International (IPC 1-7): A63B23/02
CPC: A63B22/203 A63B22/205 A63B22/208 A63B2022/206 Y10S482/907 A63B71/0619 A63B21/0428 A63B21/0552 A63B21/068 A63B21/0726 A63B21/078 A63B21/225 A63B22/0046 A63B22/14 A63B23/0222 A63B23/0227 A63B71/0622 A63B2022/0079 A63B2024/0096 A63B2071/0602 A63B2071/0627 A63B2071/0647 A63B2071/0694 A63B2208/0219 A63B2220/20 A63B2225/20 A63B2225/50 A63B2225/685 G06F1/1632 A63B21/4035 A63B21/4045
European: A63B21/04B6 A63B21/055D A63B21/078 A63B21/14K4H A63B21/14M4 A63B22/14 A63B22/20 A63B23/02A6 A63B23/02A8 A63B71/06D A63B71/06D2 K63B208/02C2 K63B21/068 K63B21/072D K63B21/22F K63B22/00D K63B22/00R2 K63B220/20 K63B225/20 K63B225/50 K63B24/00R6 K63B71/06A K63B71/06D2A2 K63B71/06D3 K63B71/06L
US: 482/123 482/132 482/135 482/140 482/140P 482/44 482/45 482/52 482/8 482/8P 482/907

Family:

Publication number	Publication date	Application number	Application date
AR081373 AA	20120829	AR2011P101584	20110506
AR082873 AA	20130116	AR2011P103203	20110901
AU2010352535 AA	20111110	AU20100352535	20101104
SG176368 A1	20111229	SG20110032364	20110506
SG178706 A1	20120329	SG20110061876	20110826
TW201201883 A	20120116	TW20110115994	20110506
TW201223590 A	20120616	TW20110131089	20110830
US2011275482 AA	20111110	US20100873680	20100901
US2011275498 AA	20111110	US20100775964	20100507
US8118718 BB	20120221	US20100775964	20100507
US8241186 BB	20120814	US20100873680	20100901
WO11139296 A1	20111110	WO2010US55379	20101104

Priority:
US20100775964 20100507 US20100873680 20100901 WO2010US55379 20101104

Probable Assignee: FITNESS BRANDS 2 LLC

Assignee(s): (std)**:** BRODESS DAVID ; CASEY MICHAEL ; FITNESS BRANDS 2 LLC

Inventor(s): (std)**:** BRODESS DAVID ; CASEY MICHAEL ; DAVID BRODESS ; MICHAEL CASEY

Agent(s): GRIFFITH HACK; DONALDSON AND BURKINSHAW; TECHLAW LLP; DE LA CERRA MANUEL F ET AL

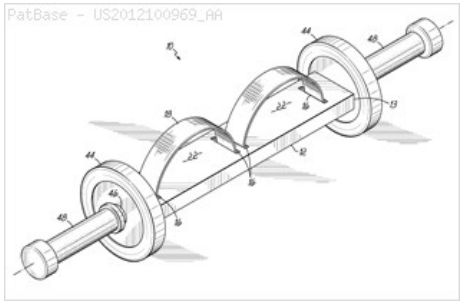
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ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

35) Family number: 50962828 (US2012100969A)

Title: **EXERCISE** **DEVICE** AND METHOD

Abstract: Source: US2012100969A An **exercise** **device** of the present invention includes a beam; rods removeably affixed and extending from ends of the beam; wheels rotatably mounted on the rods; handles positioned on outer ends of the rods; and a body-part engagement **device** for engaging a user's hands, feet, or knees with the **device**. Multiple **exercises** that **exercise** various muscle groups of the human body may be performed with the **exercise** **device**.

Classifications:
International (IPC 8-9): A63B21/00 A63B21/22 A63B22/20 A63B23/02 A63B23/035 (Advanced/Invention)
CPC: A63B22/20 A63B23/0211 A63B23/03525 A63B23/0355 A63B2208/0219 A63B21/143 A63B21/4015 A63B21/22 A63B21/15
European: A63B21/14A7F A63B22/20 A63B23/02A2 A63B23/035C2 A63B23/035F K63B208/02C2
US: 482/132 482/132P



Family:

Publication number	Publication date	Application number	Application date
US2012100969 AA	20120426	US20110278574	20111021
US2014364289 AA	20141211	US20140467301	20140825
US8814767 BB	20140826	US20110278574	20111021
US9180334 BB	20151110	US20140467301	20140825

Priority:
US20100405318P 20101021 US20110278574 20111021 US20140467301 20140825

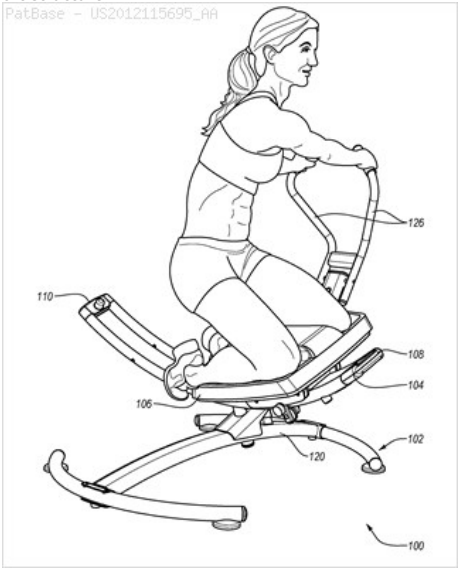
Probable Assignee: BRODBECK RALPH R
Assignee(s): (std): BRODBECK RALPH R
Inventor(s): (std): BRODBECK RALPH R
Agent(s): WOOD HERRON AND EVANS LLP

36) Family number: 51084898 (US2012115695A)

Title: SYSTEM AND METHOD FOR EXERCISING

Abstract: Source: US2012115695A An abdominal **exercise** **device** includes a support structure, a track movable relative to the support structure, and a body support member movable relative to the support structure and track. A locking mechanism attaches to the track, and selectively secures the track at a fixed orientation relative to the support structure. In a first state, the locking mechanism restricts the track from rotating relative to the support structure. In a second state, the locking mechanism allows the track to rotate relative to the support structure. In using the **exercise** **device**, the user may obtain any of three motions. A first motion is provided by sliding the body support member along the track. A second motion is provided by rotating the track relative to the support structure. A third motion is a combined motion in which the body support slides along the track and the track rotates relative to the support structure.

Classifications:
International (IPC 8-9): A63B21/00 A63B22/14 A63B23/02 A63B26/00 A63B71/00 (Advanced/Invention);
A63B21/068 A63B22/00 A63B22/20 A63B23/00 (Advanced/Non-invention)
CPC: A63B22/208 A63B21/068 A63B22/0023 A63B22/14 A63B22/205 A63B23/0216 A63B2022/0033 A63B2022/206 A63B2023/003 A63B2208/0214 A63B2208/0219
European: A63B22/14 A63B22/20T4 A63B22/20T8 A63B23/02A4 K63B208/02C K63B208/02C2 K63B21/068 K63B22/00B4 K63B22/00C4 K63B22/20T6 K63B23/00A
US: 482/132 482/140 482/142 482/142P



Family:

Publication number	Publication date	Application number	Application date
BRMU9002222 U2	20130305	BR2010MU02222U	20101130
US2012115695 AA	20120510	US20100960436	20101203
US8870726 BB	20141028	US20100960436	20101203

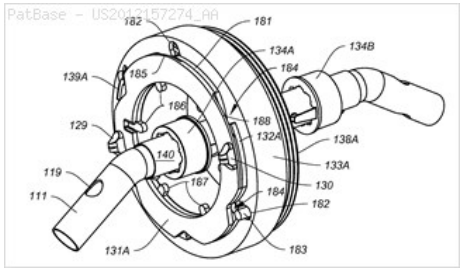
Priority:
US20100412373P 20101110 US20100960436 20101203

Probable Assignee: ICON HEALTH AND FITNESS INC
Assignee(s): (std): DALEBOUT WILLIAM T ; ICON IP INC ; OLSON MICHAEL ; WATTERSON SCOTT R
Assignee(s): ICON HEALTH AND FITNESS INC ; BANK OF AMERICA NA ADMINISTRATIVE AGENT AS
Inventor(s): (std): WATTERSON SCOTT R ; OLSON MICHAEL ; DALEBOUT WILLIAM T
Inventor(s): WILLIAM T DALEBOUT ; MICHAEL OLSON ; SCOTT R WATTERSON
Agent(s): WORKMAN NYDEGGER

37) Family number: 51331673 (US2012157274A)

Title: WHEELED **EXERCISE DEVICE**

Abstract: Source: US2012157274A A wheeled **exercise device** includes a first wheel part and a second wheel part coupled to the first wheel part, with the first and second wheel parts coupled together on a central axle therethrough so as to form a central main wheel with a generally flat center circumference and angled outer circumferential sides. The **device** includes a pair of handles, each handle extending outward and downward at an angle from the central axle from a corresponding wheel part.



Classifications:
International (IPC 8-9): A63B21/00 A63B21/02 A63B21/045 A63B22/00 A63B22/20 A63B23/02 A63B23/12 A63B24/00 A63B69/00 (Advanced/Invention)
CPC: A63B21/0004 A63B21/023 A63B21/045 A63B21/153 A63B23/0205 A63B2208/0219 A63B23/0211 A63B22/20 A63B21/00185 A63B22/203
European: A63B21/00D A63B21/02B A63B21/045 A63B21/15F4 A63B22/20T2 A63B23/02A K63B208/02C2
US: 482/127 482/132 482/132P

Family:

Publication number	Publication date	Application number	Application date
AU2011343490 AA	20120621	AU20110343490	20111216
AU2011343490 BB	20141211	AU20110343490	20111216
CA2808244 AA	20130212	CA20112808244	20111216
CA2808244 C	20151201	CA20112808244	20111216
CN103153407 A	20130612	CN201180040695	20111216
EP2651523 A2	20131023	EP20110848063	20111216
EP2651523 A4	20141203	EP20110848063	20111216
JP2014502529 T2	20140203	JP20130544845T	20111216
KR101418551 B1	20140711	KR20137004426	20111216
KR20130052677 A	20130522	KR20137004426	20111216
US2012157274 AA	20120621	US20110329079	20111216
US2015182792 AA	20150702	US20150593218	20150109
US9011303 BB	20150421	US20110329079	20111216
WO12083237 A2	20120621	WO2011US65621	20111216
WO12083237 A3	20120927	WO2011US65621	20111216

Priority:
US20100424049P 20101216 US20110329079 20111216 WO2011US65621 20111216 US20150593218 20150109

Probable Assignee: IMPLUS FOOTCARE LLC

Assignee(s): (std)**:** CLARK GEORGE A ; GARLAND TYLOR HILTON ; IMPLUS FOOTCARE LLC ; MACCOLL IAN COATS ; PEGLER JAYSON WHITE ; MILLS ALDEN MORRIS

Assignee(s): IMPLUS FOOTCARE LLC2001 TW ALEXANDER DRIVEBOX 13925DURHAMNC27709-3925US ; ARES CAPITAL AGENT AS CORP

Inventor(s): (std)**:** CLARK GEORGE A ; GARLAND TYLOR HILTON ; MACCOLL IAN COATS ; MILLS ALDEN MORRIS ; PEGLER JAYSON WHITE

Inventor(s): PEGLER JAYSON WHITEUS ; MILLS ALDEN MORRISUS ; MACCOLL IAN COATSUS ; GARLAND TYLOR HILTONUS ; CLARK GEORGE AUS

Agent(s): WRAYS; HEENAN BLAIKIE LLP; MILLMAN IP INC; POTTER CLARKSON LLP; CHARTER IP LLC; MATTHEW J; LATTIG MATTHEW J

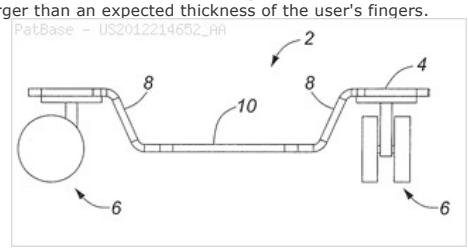
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT 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

38) Family number: 51780368 (US2012214652A)

Title: MOBILE **EXERCISE** **DEVICE**

Abstract: Source: US2012214652A A mobile **exercise** **device** includes a body and a plurality of glide members. The body includes a pair of parallel ridges defining an elongated rectangular centre portion, wherein respective length and width dimensions of the centre portion are sized to enable a user to stand with one foot positioned longitudinally on the centre portion/ The centre portion further includes a transversally oriented elongated opening sized to receive fingers of a user's hand, to thereby permit a user to grasp the centre portion. The glide members are affixed to the body outboard of the ridges, and facilitate omnidirectional movement of the **device** across a floor surface. The glide members further define a clearance distance between the centre portion and the floor surface which is larger than an expected thickness of the user's fingers.

Classifications:
International (IPC 8-9): A63B21/00 A63B22/20 A63B23/02 (Advanced/Invention)
CPC: A63B22/20 A63B23/03541 A63B23/03575 A63B2208/0295
US: 482/132 482/132P



Family:

Publication number	Publication date	Application number	Application date
CA2768588 AA	20120822	CA20122768588	20120222
US2012214652 AA	20120823	US20120402189	20120222

Priority:

US20110445226P 20110222 US20120402189 20120222 CA20122768588 20120222

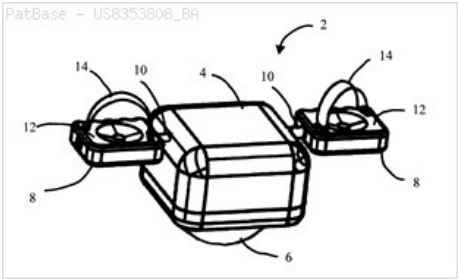
Probable Assignee: WILLIAMS ROB
Assignee(s): (std): WILLIAMS ROB
Inventor(s): (std): WILLIAMS ROB
Agent(s): DANIELS KENT J

39) Family number: 52788652 (US8353808B)

Title: MULTI-DIRECTIONAL ROLLING ABDOMINAL **EXERCISE** **DEVICE**

Abstract: Source: US8353808B **Exercise** **devices** for exercising the abdominal muscles and other muscle groups are disclosed. Each of the **exercise** **devices** has a housing from which opposing interconnected ends of an axle extend and a support ball that is captured within and partially extends from the housing. The housing has a cavity defining a partial sphere for receiving the support ball. Each of the **exercise** **devices** also comprises a plurality of strips which are attached to the surface of the cavity. Each of the strips includes a plurality of bearings each of which is captured within a bearing race. The strips are positioned upon the cavity surface so as to engage the support ball surface and to provide free-rolling support of the housing on the support ball in any direction when the **exercise** **device** is in use. Methods of using the **exercise** **devices** are also disclosed.

Classifications:
International (IPC 8-9): A63B22/20 A63B23/02 (Advanced/Invention); A63B21/068 (Advanced/Non-invention)
CPC: A63B22/203 A63B23/0211 A63B23/0216 A63B23/03525 A63B23/0355 A63B23/0227 A63B21/4011 A63B21/4015 A63B21/4035 A63B21/4043
US: 482/132 482/140 482/141 482/51 482/907 482/96



Family:

Publication number	Publication date	Application number	Application date
US8353808 BA	20130115	US20120524089	20120615

Priority:
US20120524089 20120615

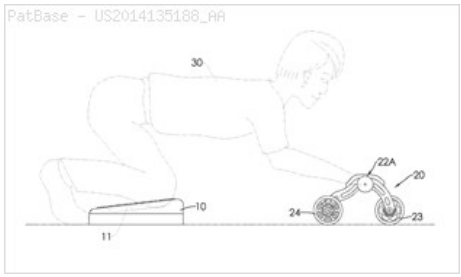
Probable Assignee: DIVERSIFIED BUSINESS INTERESTS
Assignee(s): (std): BARNEY EDWIN MICHAEL
Assignee(s): DIVERSIFIED BUSINESS INTERESTS
Inventor(s): (std): BARNEY EDWIN MICHAEL
Agent(s): IP AND INTERNET LAW NORTH LLC; THOMAS

40) Family number: 53667113 (US2014135188A)

Title: ABDOMINAL **EXERCISE** **DEVICE**

Abstract: Source: US2014135188A An abdominal **exercise** **device** has a kneeling pad and a roller. The kneeling pad includes a top surface and two spaced apart kneeling recesses. The kneeling recesses are formed in the top surface of the kneeling pad. The roller is positioned movably relative to the kneeling pad when in use and includes a bracket, a left handle, a right handle, a front wheel and two rear wheels. The left and right handles are attached to a middle of the bracket. The front wheel is mounted on a front of the bracket. The rear wheels are mounted on a rear of the bracket. The kneeling recesses are ergonomically designed to correspond to contours of the human knees, thereby providing a comfortable support for a user's knees. The three wheels ensure that the roller has good balanced performance such that the user can steadily operate the roller.

Classifications:
International (IPC 8-9): A63B21/00 A63B22/20 A63B23/02 A63B26/00 A63B71/00 (Advanced/Invention)
CPC: A63B22/20 A63B21/1465 A63B21/1469 A63B21/1488 A63B23/0211 A63B2208/0295 A63B21/4033 A63B21/4035 A63B21/4045
US: 482/132 482/139 482/142



Family:

Publication number	Publication date	Application number	Application date
TWM451154 Y	20130421	TW20120221713U	20121109
US2014135188 AA	20140515	US20130747616	20130123
US9005089 BB	20150414	US20130747616	20130123

Priority:
TW20120221713U 20121109 TW20120223356U 20121203

Probable Assignee: HUANG JUI CHING
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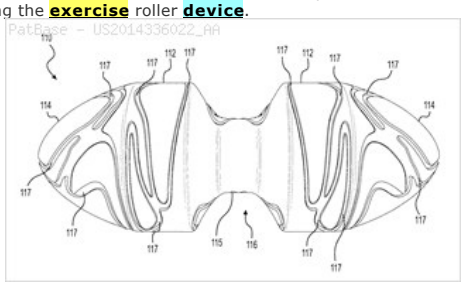
Inventor(s): (std): HUANG JUI CHING ; HUANG RUI QING
Agent(s): HERSHKOVITZ AND ASSOCIATES PLLC; ABE

41) Family number: 57796095 (US2014336022A)

Title: **EXERCISE** **DEVICE**

Abstract: Source: US2014336022A A **exercise** roller **device** including a center roller portion provided with shaped end roller portions, and the center roller portion provided with a centered circumferential groove. A method of making the **exercise** roller **device**.



Classifications:
International (IPC 8-9): A47C7/42 A61H15/00 A61H7/00 A63B21/00 A63B21/02 A63B21/22 A63B22/18 A63B23/02 B29C45/00 (Advanced/Invention)
CPC: A61H7/001 A61H2201/1284 A61H2201/1623 A61H2201/1695 A61H2203/0456 A61H2205/081 A61H1/008 A61H2015/0021 A61H15/0092
US: 264/238 482/132

Family:

Publication number	Publication date	Application number	Application date
CA2851835 AA	20141113	CA20142851835	20140513
EP2803347 A1	20141119	EP20140168044	20140513
US2014336022 AA	20141113	US20140275635	20140512

Priority:
US20130822697P 20130513 US20140275635 20140512

Probable Assignee: COULTER VENTURES LLC D B A ROGUE FITNESS
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Inventor(s): (std)**:** JONES DYLAN
Inventor(s): JONES DYLAN1080 STEELWOOD ROADCOLUMBUSOH43212US
Agent(s): SMART AND BIGGAR; SLINGSBY PARTNERS 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