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(54) **Waist and hip developer**

(57) A waist and hip developer includes a track curving smoothly upwardly toward two distal ends thereof and having two stop members respectively located at two distal ends thereof, foot members affixed to the track for supporting the track on the floor steadily, a slide slidably coupled to the track with rollers thereof and movable back

and forth along the track between the stop members, a seat rotatably supported on the slide with a ball bearing within a predetermined angle and selectively lockable to the slide with a lock screw, two grips respectively affixed to the two distal ends of the track, and a counter for counting of the number of reciprocating cycles of the slide moving by the user sitting on the seat.

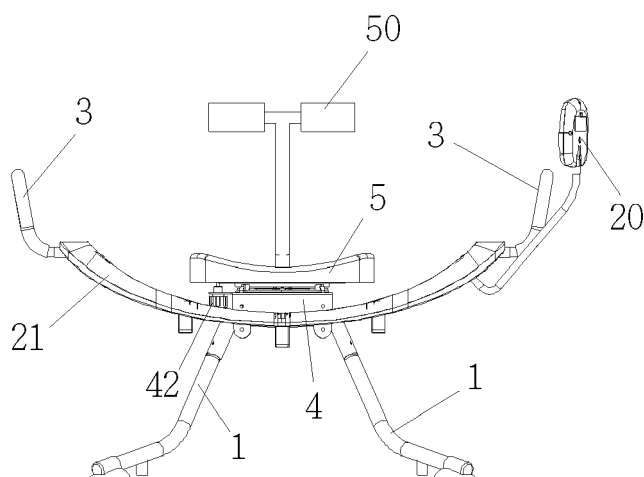


FIG.2

Description

BACKGROUND OF THE INVENTION

1. Field of the Invention:

[0001] The present invention relates to exercising machines and more particularly, to a waist and hip developer, which comprises a track curving smoothly upwardly toward two distal ends thereof and having two stop members respectively located at two distal ends thereof, foot members affixed to the track for supporting the track on the floor steadily, a slide slidably coupled to the track with rollers thereof and movable back and forth along the track between the stop members, a seat rotatably supported on the slide with a ball bearing within a predetermined angle and selectively lockable to the slide by a lock screw, and two grips respectively affixed to the two distal ends of the track.

2. Description of the Related Art:

[0002] Due to unbalanced diet, many people get too many refined and processed carbohydrates. Further, due to lack in exercise places, most people do not take adequate amount of exercise daily. Because modern people do more care about the body health, many exercise machines are created and have appeared on the market. However, few commercial exercising machines have the function for training the muscles of the waist and hips. There are multipurpose gymnastic machines having such a function. However, these machines are commonly expensive and heavy.

SUMMARY OF THE INVENTION

[0003] The present invention has been accomplished under the circumstances in view. It is one object of the present invention to provide a waist and hip developing exercisers, which is practical for training the muscles of the waist and hips. It is another object of the present invention to provide a waist and hip developing exercisers, which is inexpensive and not heavy.

[0004] To achieve these and other objects of the present invention, a waist and hip developer comprises a track curving smoothly upwardly toward two distal ends thereof and having two stop members respectively located at two distal ends thereof, foot members affixed to the track for supporting the track on the floor steadily, a slide slidably coupled to the track with rollers thereof and movable back and forth along the track between the stop members, a seat rotatably supported on the slide with a ball bearing within a predetermined angle and selectively lockable to the slide by a lock screw, two grips respectively affixed to the two distal ends of the track, and a counter for counting of the number of reciprocating cycles of the slide moving by the user sitting on the seat. When using the waist and hip developer, the user can sit on the

seat and then twist the waist to rotate the seat relative to the slide and simultaneously to move the seat and the slide alternatively leftwards and rightwards along the track between the stop members. By means of repeating the aforesaid procedure, the muscles of the user's waist and hips are trained.

BRIEF DESCRIPTION OF THE DRAWINGS

10 **[0005]**

FIG. 1 is an elevational view of a waist and hip developer in accordance with the present invention.

FIG. 2 is a front view of the waist and hip developer in accordance with the present invention.

FIG. 3 is an exploded view of the waist and hip developer in accordance with the present invention.

FIG. 4 is a schematic side view of a part of the waist and hip developer in accordance with the present invention.

FIG. 5 is an oblique bottom elevation of a part of the waist and hip developer in accordance with the present invention.

FIG. 6 is a schematic drawing illustrating a status of use of the waist and hip developer in accordance with the present invention.

FIG. 7 is a schematic drawing illustrating another status of use of the waist and hip developer in accordance with the present invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

35 **[0006]** Referring to FIGS. 1~3, a waist and hip developer in accordance with the present invention is shown comprising a plurality of foot members **1**, a track **2**, a grip **3**, a slide **4** and a seat **5**.

40 **[0007]** The track **2** is smoothly arched and curving upwardly toward two distal ends thereof, having stop members **23** respectively located near the two distal ends. The foot members **1** are affixed to the bottom side of the track **2** and adapted for supporting the track **2** on the floor steadily. The slide **4** is slidably coupled to the track **2** with rollers **40** and movable back and forth along the track **2** between the stop members **23** at the two distal ends of the track **2**. The seat **5** is supported on the slide **4** with a ball bearing **41** and rotatable relative to the slide **4** within a predetermined angle. The slide **4** is provided with a lock screw **42** that is movable with the slide **4** between two protrusions **51** in the seat **5** to limit the angle of rotation of the seat **5** relative to the slide **4** and fastenable to a lock screw hole **52** to lock the seat **5** to the slide **4**. The grips **3** are respectively affixed to the two distal ends of the track **2** at the top side. Further, a counter **20** is mounted on one end of the track **2**. Further, a guard **21** is mounted around the border of the track **2** for protection and decoration. Further, a backrest **50** is affixed to the seat **5** for supporting the back of the user sitting on the

seat 5.

[0008] When using the waist and hip developer, the user can position the waist and hip developer on the floor by means of the foot members 1, and then sit on the seat 5 and hold the grips 3 with the two hands, and then, after loosening of the lock screw 42 from the lock screw hole 52, twist the waist to rotate the seat 5 relative to the slide 4 within the predetermined angle defined by the two protrusions 51 and simultaneously to move the seat 5 and the slide 4 alternatively leftwards and rightwards along the track 2 between the stop members 23 at the two distal ends of the track 2. By means of repeating the aforesaid procedure, the muscles of the user's waist and hips are trained. During exercise, the user can rest the back of the body on the backrest 50. At the same time, the counter 20 counts the number of reciprocating cycles of the exercise and length of the exercising time.

[0009] Although a particular embodiment of the invention has been described in detail for purposes of illustration, various modifications and enhancements may be made without departing from the spirit and scope of the invention. Accordingly, the invention is not to be limited except as by the appended claims.

Claims

1. A waist and hip developer, comprising:

a track being smoothly arched and curving upwardly toward two distal ends thereof, said track comprising two stop members respectively located near the two distal ends thereof;
a plurality of foot members affixed to a bottom side of said track and adapted for supporting said track on the floor steadily;
a slide slidably coupled to said track with rollers thereof and movable back and forth along said track between said stop members, said slide comprising a lock screw; and
a seat supported on said slide with a ball bearing and rotatable relative to said slide within a predetermined angle, said seat comprising two protrusions disposed at two opposite sides relative to said lock screw and alternatively stoppable against said lock screw to limit the angle of rotation of said seat relative to said slide, and a lock screw hole disconnectably fastenable to said lock screw to lock said seat to said slide.

2. The waist and hip developer as claimed in claim 1, further comprising two grips respectively affixed to the two distal ends of said track.

3. The waist and hip developer as claimed in claim 1, further comprising a counter mounted on one end of said track.

4. The waist and hip developer as claimed in claim 1, further comprising a guard mounted around the border of said track.

5. The waist and hip developer as claimed in claim 1, wherein said seat comprises a backrest for supporting the back of a person sitting on said seat.

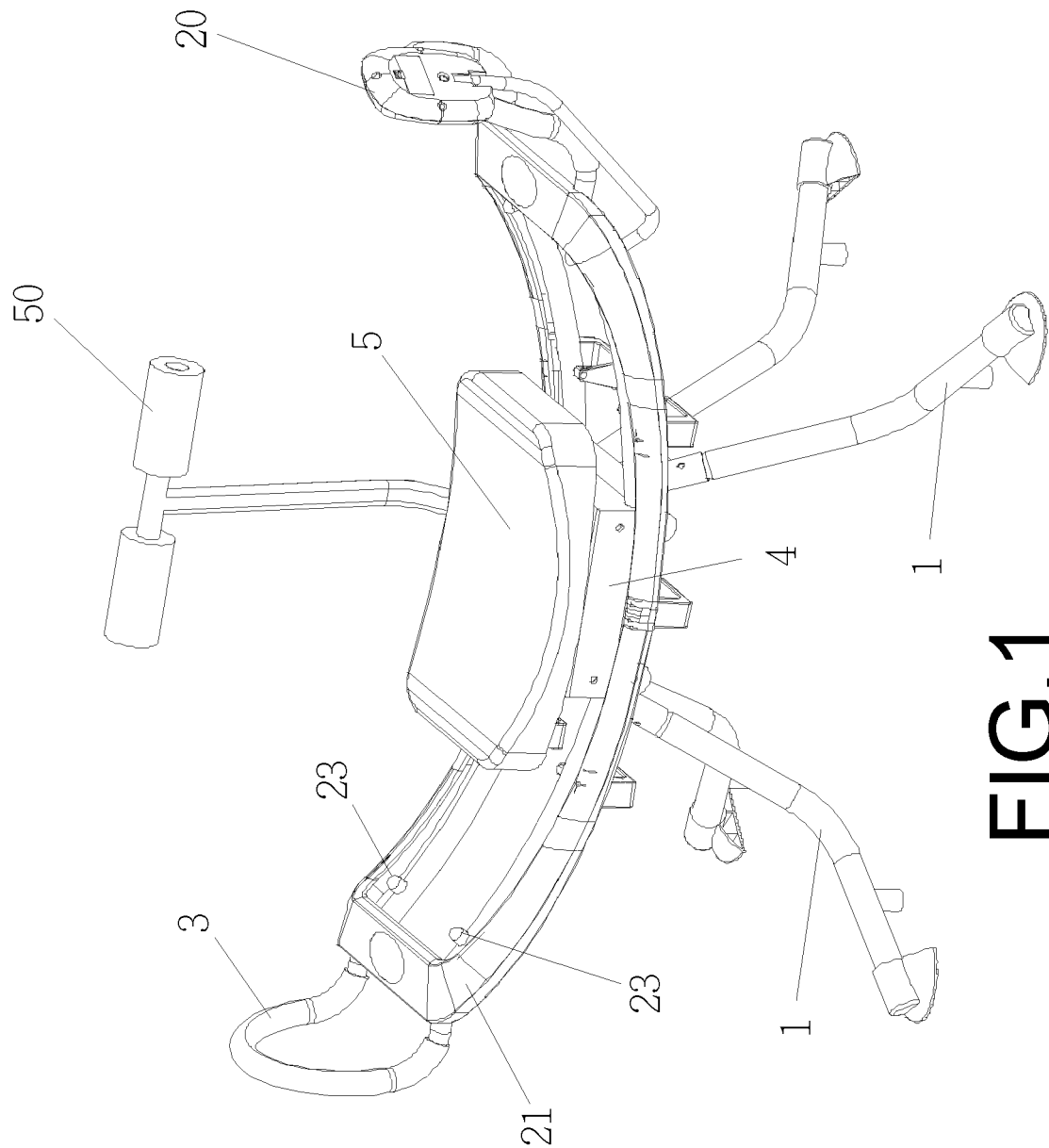


FIG.1

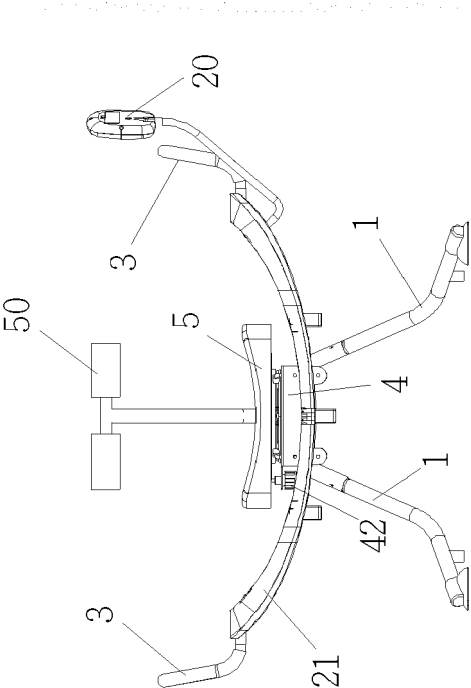


FIG.2

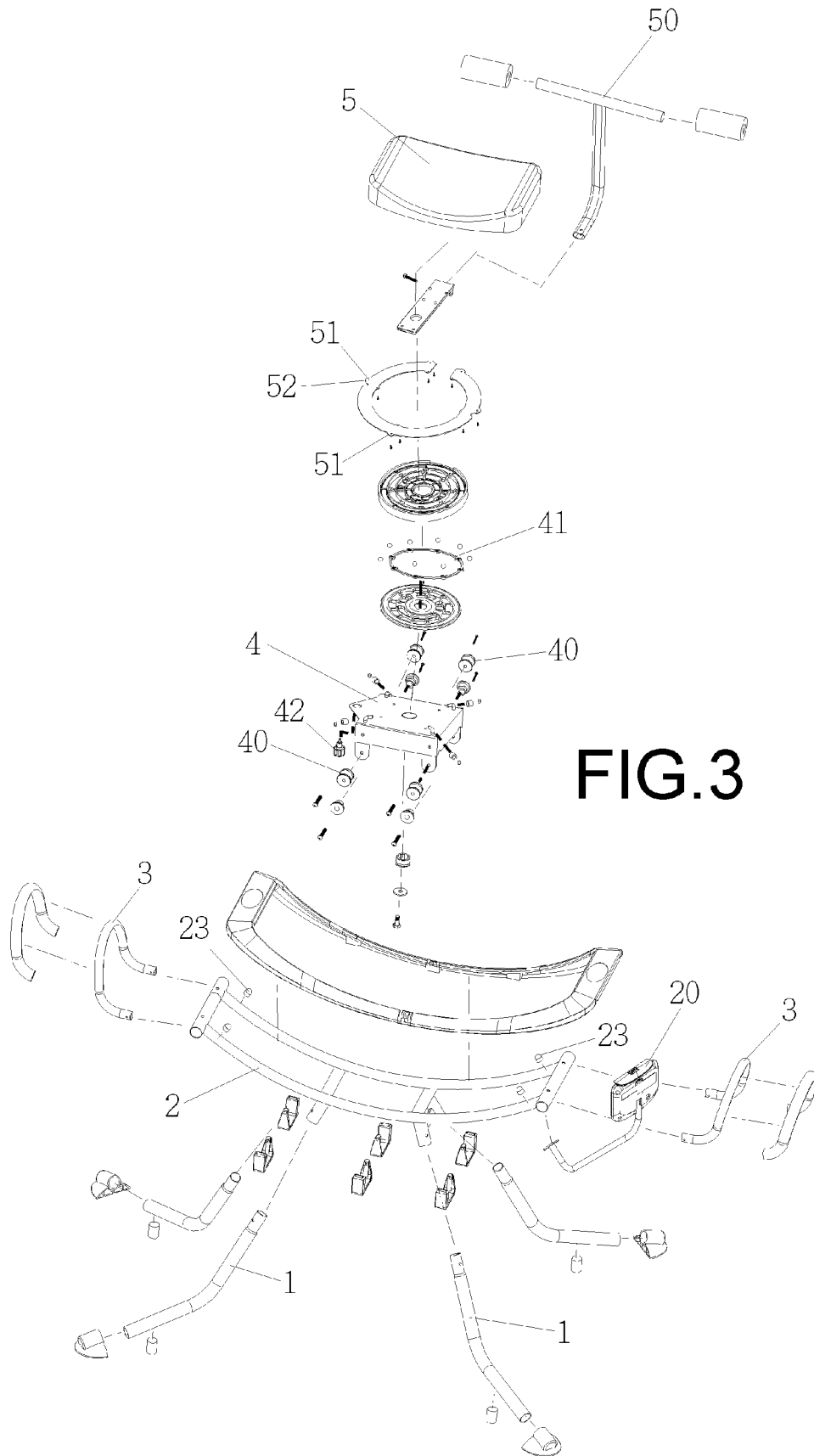


FIG.3

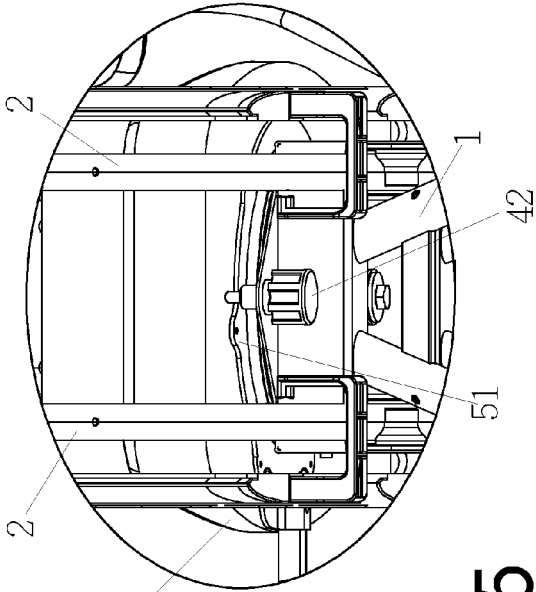


FIG. 5

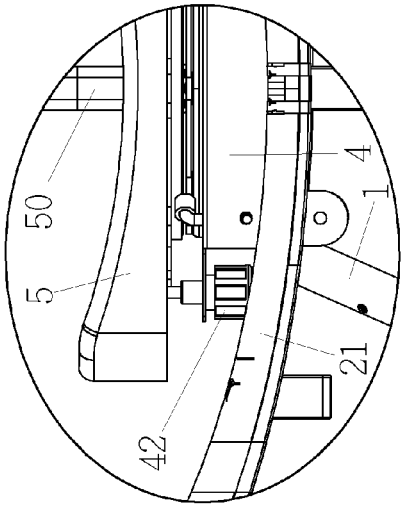
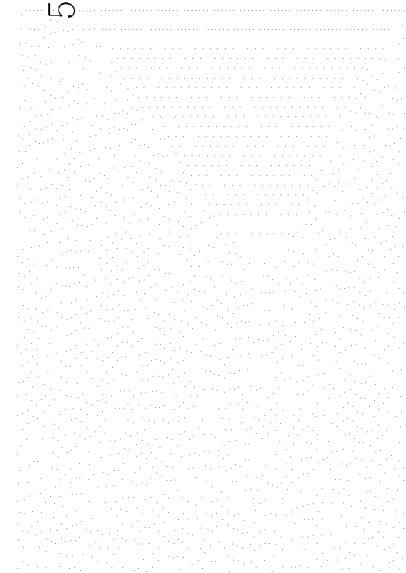


FIG. 4

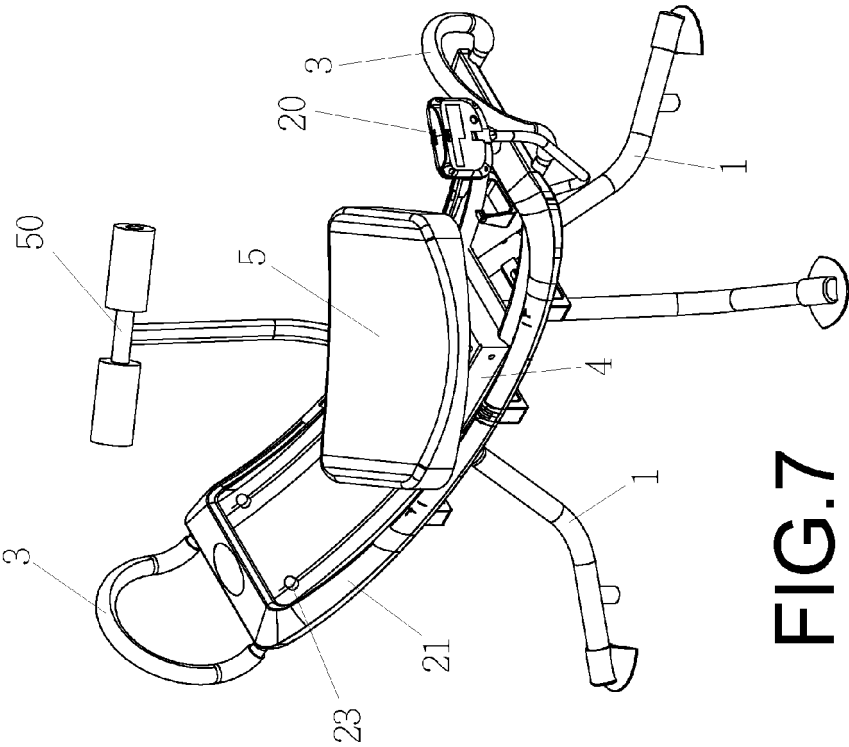


FIG. 7

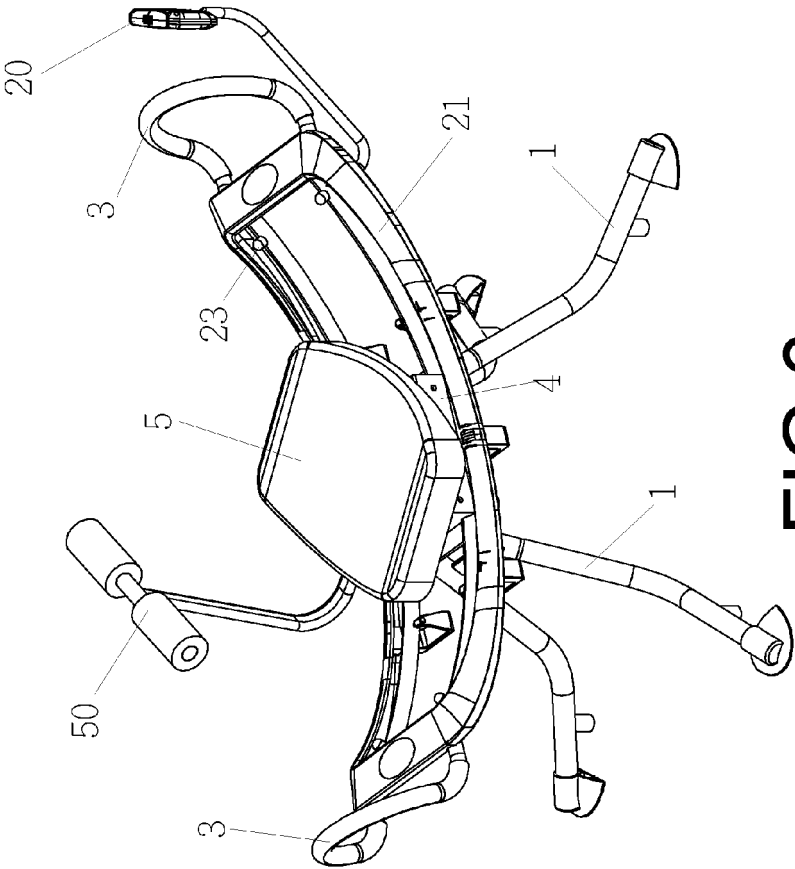


FIG. 6



EUROPEAN SEARCH REPORT

Application Number
EP 11 18 9482

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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Y	WO 83/03194 A1 (BIORESEARCH INC [US]) 29 September 1983 (1983-09-29) * page 6, paragraph 2 - page 7, paragraph 1; figures *	1-5	
A	US 4 560 165 A (WITTEMAN FRANK [US] ET AL) 24 December 1985 (1985-12-24) * the whole document *	1	
			TECHNICAL FIELDS SEARCHED (IPC)
			A63B
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 4 May 2012	Examiner Squeri, Michele
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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EPO FORM 1503 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 11 18 9482

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
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04-05-2012

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