

(19)



(11)

EP 2 060 205 A1

(12)

EUROPEAN PATENT APPLICATION

(43) Date of publication:
20.05.2009 Bulletin 2009/21

(51) Int Cl.:
A47C 4/54 (2006.01) A47C 5/10 (2006.01)
A47C 7/54 (2006.01) A47C 7/40 (2006.01)

(21) Application number: **07120528.0**

(22) Date of filing: **13.11.2007**

(84) Designated Contracting States:
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR
Designated Extension States:
AL BA HR MK RS

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(54) **Inflatable sofa module**

(57) An inflatable sofa module (10) comprises a plurality of connectors (70), a plurality of base rods (30), a plurality of leg rods (60), a plurality of back rods (50), a base inflatable cushion (21) and a back inflatable cushion (25).

The plurality of base rods (30) are connected by several connectors (70) to form a base portion (35). The plurality of leg rods (60) are connected with the base

portion (35) by several connectors (70) so that the base portion (35) can be lift.

The base inflatable cushion (21) is positioned on the base upper area (351). The pluralities of back rod (50) are connected with the base portion (35) by several connectors (70). The back inflatable cushion (25) has a back through hole (251), wherein at least one of the back rods (50) passes through the back through hole (251) to hold the back inflatable cushion (25).

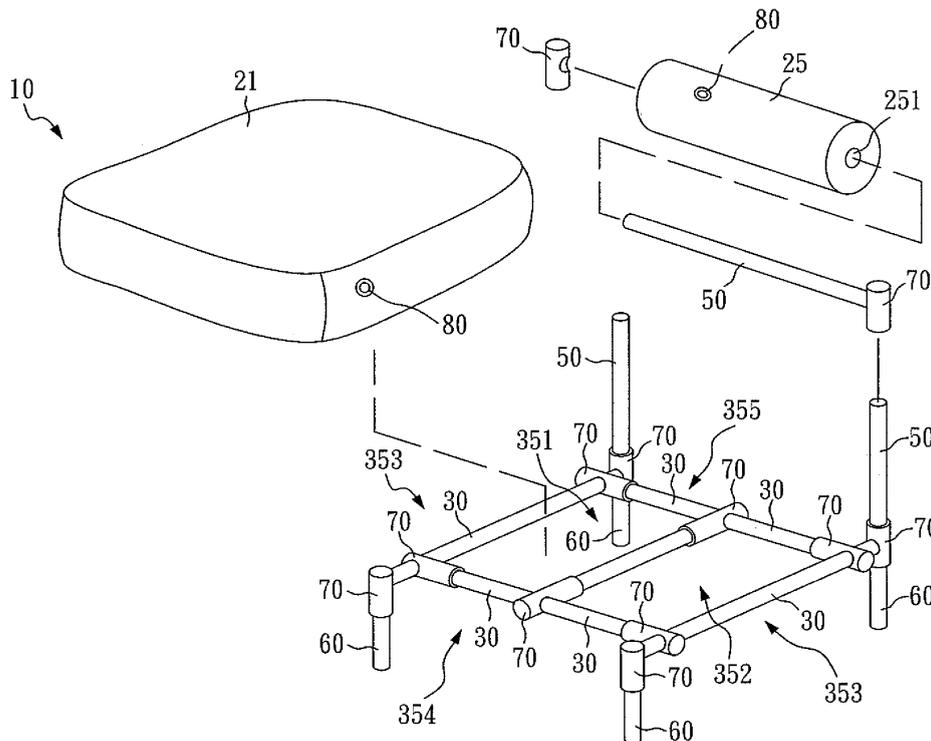


FIG. 1

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DescriptionBACKGROUND OF THE INVENTION

1. Field of the Invention

[0001] The present invention relates to an inflatable sofa module, and more particularly, to an inflatable sofa module that is easy to disassemble, assemble, store and transport.

2. Description of the Related Art

[0002] One of the most popular pieces of inflatable furniture is the air bed, which can be deflated for easy storage. Currently, other types of inflatable furniture exist on the market, such as inflatable sofas, but they are not very popular. This is primarily due to their appearance, which is not very attractive. Moreover, it is more expensive to manufacture sofas because they have more complicated structures.

[0003] Therefore, it is desirable to provide an inflatable sofa module to mitigate and/or obviate the aforementioned problems.

SUMMARY OF THE INVENTION

[0004] An objective of the present invention is to provide an inflatable sofa module that is easy to disassemble, assemble, store and transport.

[0005] Another objective of the present invention is to provide an inflatable sofa module that has reduced manufacturing costs.

[0006] Another objective of the present invention is to provide an inflatable sofa module, such as a sofa, that has an appearance similar to a traditional sofa.

[0007] A further objective of the present invention is to provide an inflatable sofa module that is different from other filled sofas so that it does not collect bacteria or dust, and is not a burden on landfills.

[0008] In order to achieve the above-mentioned objectives, the inflatable sofa module of the present invention the inflatable sofa module comprises a plurality of connectors, a plurality of base rods, a plurality of leg rods, a plurality of back rod, a base inflatable cushion and a back inflatable cushion.

[0009] The pluralities of base rods are connected by several connectors to form a base portion. The plurality of leg rods are connected with the base portion by several connectors so that the base portion can be lift.

[0010] The base inflatable cushion is positioned on the base upper area. The pluralities of back rods are connected with the base portion by several connectors. The back inflatable cushion has a back through hole, wherein at least one of the back rods passes through the back through hole to hold the back inflatable cushion.

[0011] Other objects, advantages, and novel features of the invention will become more apparent from the fol-

lowing detailed description when taken in conjunction with the accompanying drawings.

BRIEF DESCRIPTION OF THE DRAWINGS**[0012]**

FIG. 1 is an exploded perspective view of a first embodiment inflatable sofa module according to the present invention.

FIG. 2 is a perspective view of a first embodiment inflatable sofa module according to the present invention.

FIG. 3 is a perspective view of a second embodiment inflatable sofa module according to the present invention.

FIG. 4 is a perspective view of a third embodiment inflatable sofa module according to the present invention.

FIG. 5 is a perspective view of a fourth embodiment inflatable sofa module according to the present invention.

FIG. 6 is a perspective view of a fifth embodiment inflatable sofa module according to the present invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

[0013] Fifth embodiments are provided in the following, and the example inflatable sofa module of the present invention is a sofa.

[0014] Please refer to FIG. 1 to FIG. 2, which disclose a first embodiment inflatable sofa module (10). As shown in FIG. 1, the inflatable sofa module (10) comprises a plurality of connectors (70), a plurality of base rods (30), a plurality of leg rods (60), a plurality of back rod (50), a base inflatable cushion (21) and a back inflatable cushion (25).

[0015] The pluralities of base rods (30) are connected by several connectors (70) to form a base portion (35). The base portion (35) has a base upper area (351), base bottom area (352), two lateral edges (353), a front edge (354) and a back edge (355).

[0016] The plurality of leg rods (60) are connected with the base bottom area (352) by several connectors (70) so that the base portion (35) can be lift.

[0017] The base inflatable cushion (21) is positioned on the base upper area (351). The size of the base inflatable cushion (21) should cover all or at least most the base upper area (351).

[0018] The pluralities of back rod (50) are connected with the base upper area (351) of the base portion (35) by several connectors (70). The back inflatable cushion (25) has a back through hole (251), wherein at least one of the back rods (50) passes through the back through hole (251) to hold the back inflatable cushion (25).

[0019] Please refer to FIG. 3, for a second embodi-

ment. The major difference between the first and second embodiment is regarding the back inflatable cushion (25). The back inflatable cushion (25) of the inflatable sofa module (10b) has a different shape and has two back through hole (251). Therefore two back rods (50) pass through two back through holes (251) respectively to hold the back inflatable cushion (25). The major point of the second embodiment is to show that with more back through holes (251) for the back inflatable cushion (25) will let more back rods (50) pass through thereof so that the strength for holding the user back will be increased. In addition, the shape of the back inflatable cushion (25) may be more variable.

[0020] Please refer to FIG. 4, for a third embodiment. In the third embodiment, the inflatable sofa module (10c) further comprises a plurality of side rods (40) connected with the two lateral edges (353) of the base portion (35) by several connectors (70). The inflatable sofa module (10) further has two side inflatable cushions (23). Each of the side inflatable cushions (23) has a side through hole (231). At least two side rods (40) each passes through corresponding side through hole (231) to hold two side inflatable cushions (23).

[0021] Please refer to FIG. 5, for a fourth embodiment. The major difference between the fourth and third embodiment is only one side inflatable cushion (23) is connected on one lateral edge (353) of the base portion (35) by connectors (70). In the fourth embodiment, the side inflatable cushion (23) also has one side through hole (231) to let one side rods (40) passing through. In addition, the length of the base inflatable cushion (21) is longer enough so that the inflatable sofa module (10d) can be used as a sofa and a bed too.

[0022] Please refer to FIG. 6, for a fifth embodiment. The major difference between the fifth and third embodiment is that two side inflatable cushions (23) of the inflatable sofa module (10e) do not have side through holes (231). Therefore, the side rod (40) is not necessary required. In the fifth embodiment, two side inflatable cushions (23) are directly connected with the base inflatable cushion (21) on the attached area (21 a), for example, by ways of gluing, sewing, etc.

[0023] Please note that the base inflatable cushion (21), the side inflatable cushion (23) and the back inflatable cushion (25) mentioned above should all have at least one inflation valve (80) thereon, so that cushions can be inflated when using or deflated when packed.

[0024] Although the present invention has been explained in relation to its preferred embodiment, it is to be understood that many other possible modifications and variations can be made without departing from the spirit and scope of the invention as hereinafter claimed.

Claims

1. A inflatable sofa module (10, 10b, 10c, 10d, 10e) comprising:

a plurality of connectors (70);
a plurality of base rods (30) being connected by several connectors (70) to form a base portion (35), wherein the base portion (35) has a base upper area (351), base bottom area (352), two lateral edges (353), a front edge (354) and a back edge (355);

a plurality of leg rods (60) being connected with the base bottom area (352) by several connectors (70);

at least one back rod (50) being connected with the base upper area (351) by several connectors (70);

a base inflatable cushion (21) being positioned on the base upper area (351), wherein the size of the base inflatable cushion (21) at least can cover most the base upper area (351); and
a back inflatable cushion (25) with a back through hole (251), wherein the at least one back rod (50) passes through the back through hole (251) to hold the back inflatable cushion (25).

2. The inflatable sofa module (10c, 10d) as claim 1, further comprising:

at least one side rod (40) being connected with the at least one lateral edge (353) by several connectors (70);

a least one side inflatable cushion (23) with a side through hole (231), wherein the least one side rod (40) passes through the side through hole (231) to hold the least one side inflatable cushion (23).

3. The inflatable sofa module (10c) as claim 1, further comprising:

a plurality of side rod (40) being connected with two lateral edge (353) by several connectors (70);

two side inflatable cushion (23), each of the side inflatable cushion (23) having a side through hole (231), wherein at least two side rod (40) each passes through corresponding side through hole (231) to hold two side inflatable cushion (23).

4. The inflatable sofa module (10c, 10d, 10e) as claim 1, further comprising a least one side inflatable cushion (23) connected with the base inflatable cushion (21).

5. The inflatable sofa module (10, 10b, 10c, 10d, 10e) as claimed in claim 1, 2, 3 or 4, wherein the inflatable sofa module (10) is an inflatable sofa assembly.

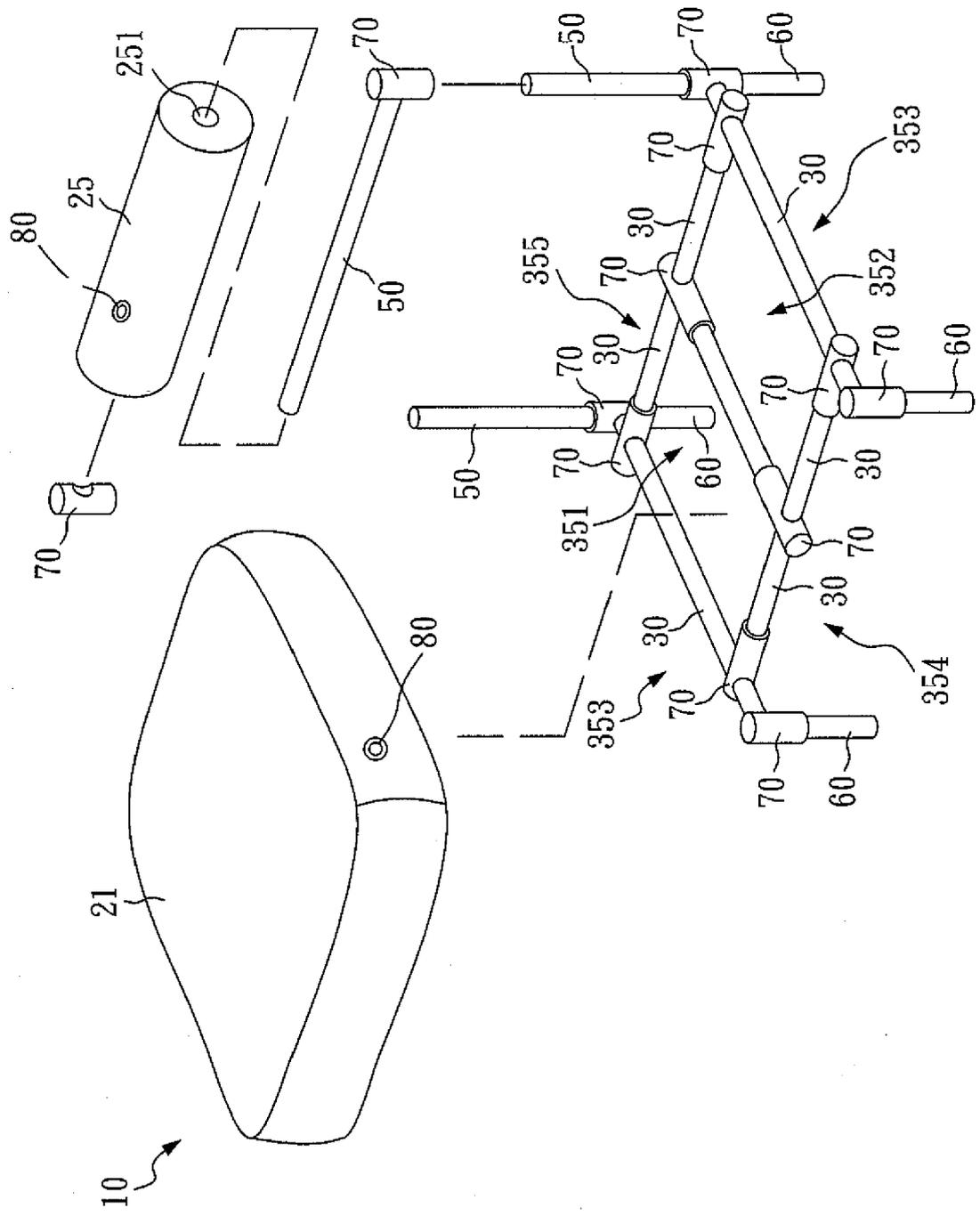


FIG. 1

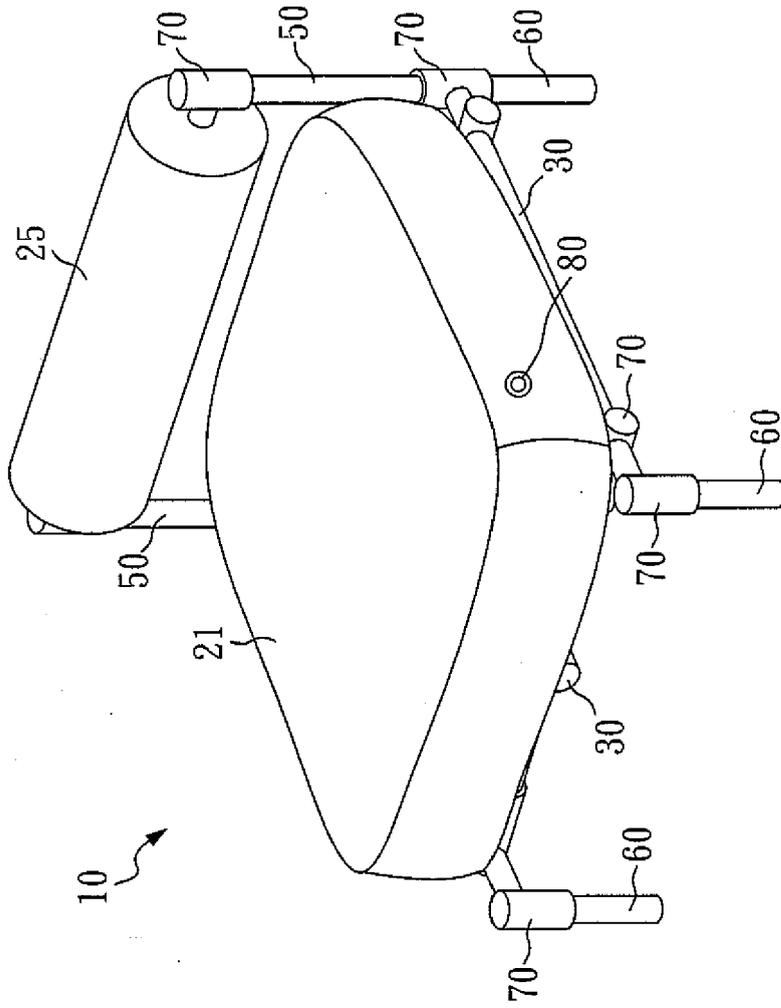


FIG. 2

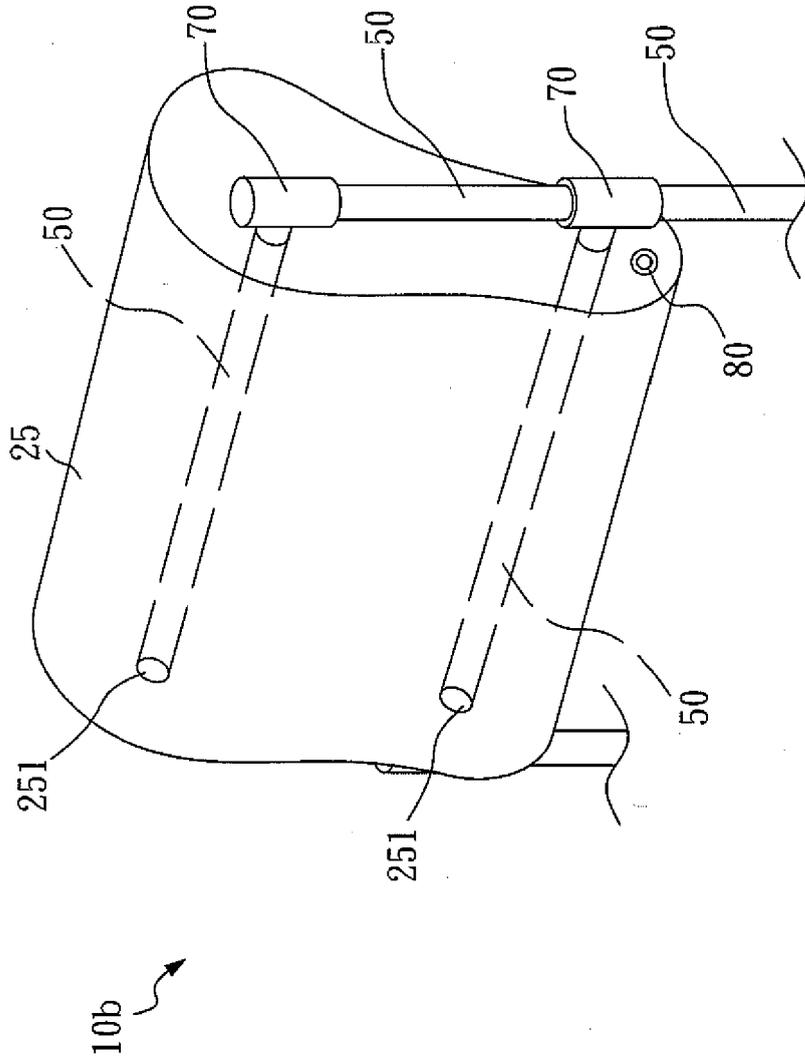


FIG. 3

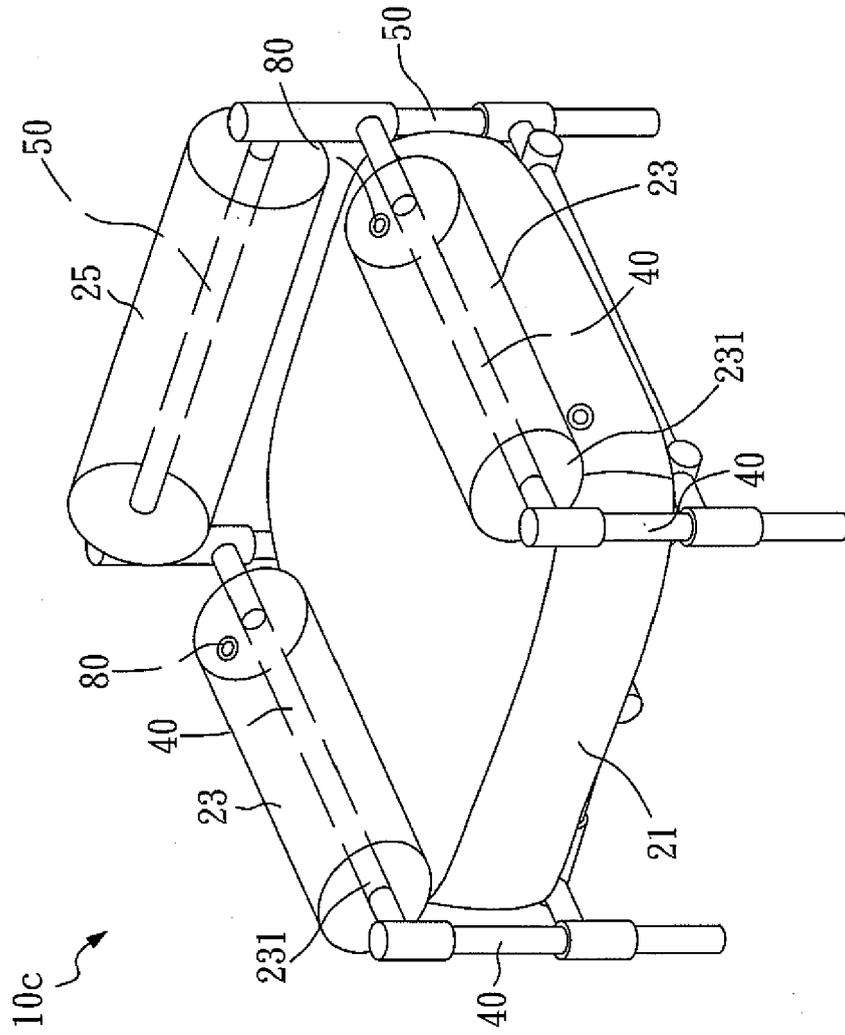


FIG. 4

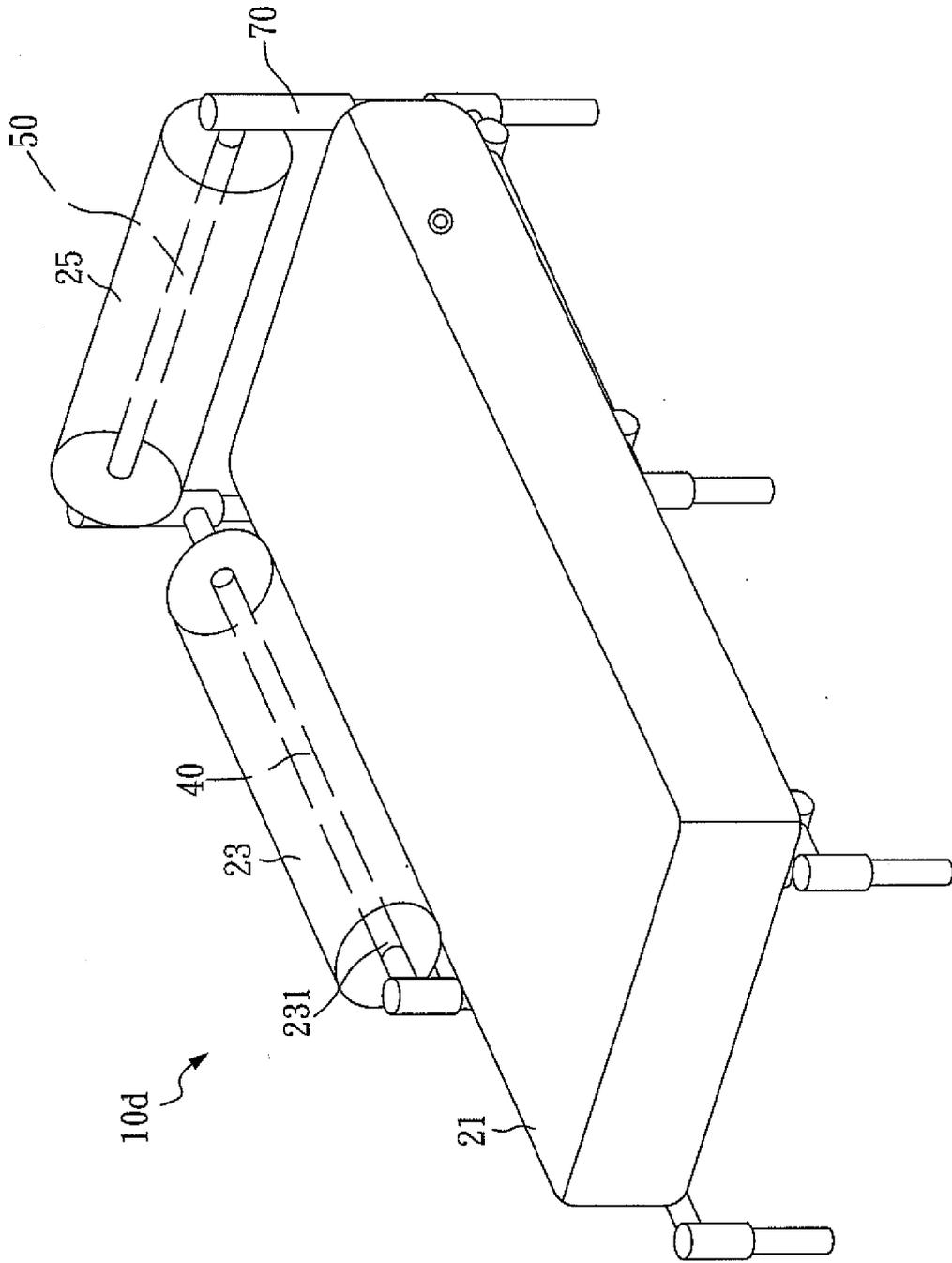


FIG. 5

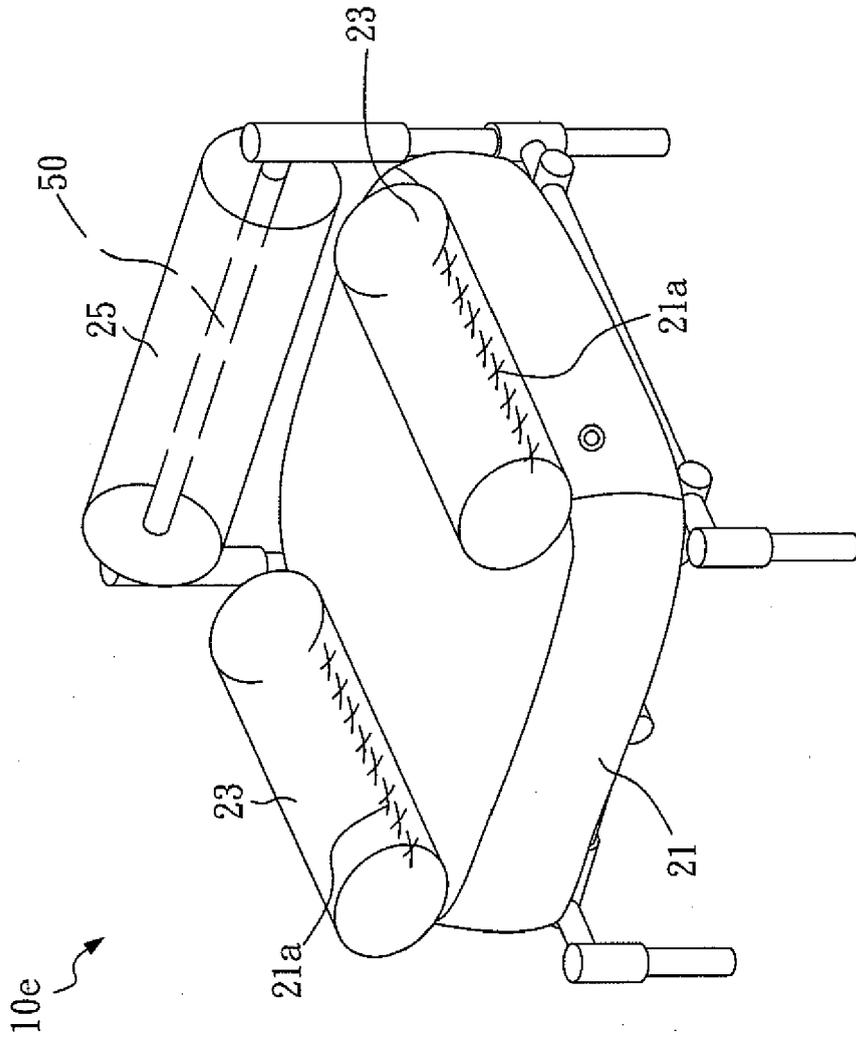


FIG. 6



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
Y	US 2005/261114 A1 (HEITZMAN CHARLES J [US] ET AL) 24 November 2005 (2005-11-24) * paragraph [0012]; figures 1-4 * -----	1-5	INV. A47C4/54 A47C5/10 A47C7/54 A47C7/40
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E	US 2008/012410 A1 (CHANG MIN-RONG [TW]) 17 January 2008 (2008-01-17) * paragraph [0019]; figures 1-4 * -----	1	
			TECHNICAL FIELDS SEARCHED (IPC)
			A47C
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
The Hague		9 April 2008	Vollering, Johannes
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 (P04/C01)

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

EP 07 12 0528

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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09-04-2008

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