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(54) Title: MEASURING DEVICE

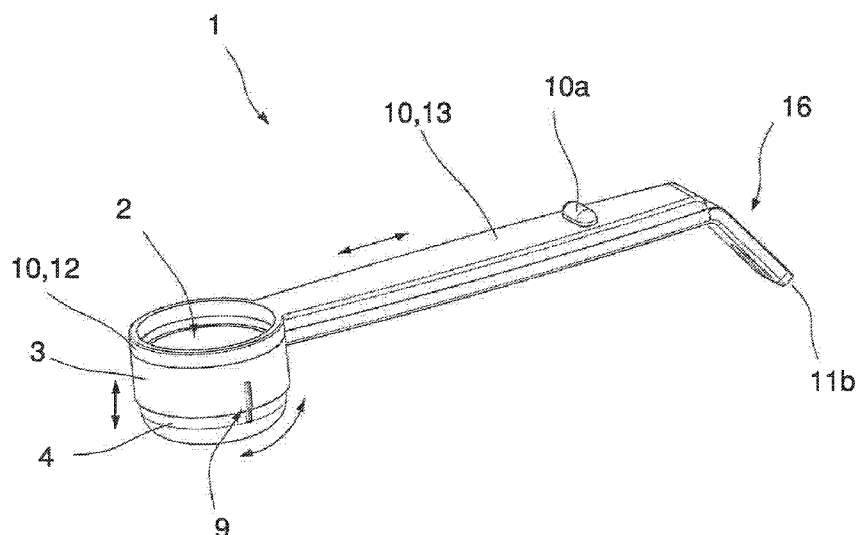


FIG. 1

(57) Abstract: The invention relates to a measure (1) for measuring an amount of beverage base, which is to be mixed in a vessel with a fluid beverage part, ingredient, wherein the measure (1) comprises a volume-receiving moiety (2), which can be continuously adjusted in terms of size to vary according to choice fillable volume of the beverage base in the volume-receiving moiety (2).



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MEASURING DEVICE

TECHNICAL FIELD

The invention relates to a measure for portioning a beverage ingredient, a beverage base.

BACKGROUND

- 5 Prior art comprises various ways of preparing beverages by mixing or possibly processing two or more constituent components.

Common measuring units such as for instance tablespoons, coffee cups and glasses or measures of volume such as centilitre, decilitre and litre are frequently used in recipes for preparing beverages or the like. The former measurement indications are never exact, as the
10 size of two coffee cups can vary considerably, which gives an uncertain result in the preparation. The latter measurement indications are more exact, but do not allow for complete variation in the preparation. The risk is that the amount of beverage prepared becomes too small or too large and has the wrong strength and gives a false taste experience.

SUMMARY OF THE INVENTION

- 15 The object of this invention is to offer a measure that ensures portioning of a beverage ingredient, a beverage base, thereby ensuring that the strength and/or taste turns out as planned and is the best for the final beverage.

DESCRIPTION OF FIGURES

Fig. 1 shows a measure according to the invention in a basic position.

- 20 Fig. 2 shows an exploded view of a measure according to the invention.

Fig. 3 shows the bottom side of a measure according to the invention.

DESCRIPTION OF EMBODIMENTS

The invention relates to a measure 1 for measuring an amount of beverage base, which is to be mixed in a vessel with a fluid beverage part, an ingredient. The measure 1 comprises a volume-receiving moiety 2, which is continuously adjustable in terms of size to vary according to choice
5 a fillable volume of the beverage base in the volume-receiving moiety 2.

Due to the continuous adjustment, the amount of the beverage base can be adjusted according to other persons' instructions or according to one's own liking and taste, thus obtaining a final beverage with the desired strength and taste.

The volume-receiving moiety 2 comprises at least two interacting combination moieties 3 and
10 4, wherein at least one 3 comprises a portion 5 interacting with the second combination moiety 4, which enables continuous movement of the two combination moieties 3 and 4 relative to each other to increase or reduce the volume in the volume-receiving moiety 2.

The first combination moiety 3 is annular, circular, tubular and comprises a first portion 5, interacting with the second combination moiety 4, in its lower part. The second combination
15 moiety 4 has the shape of an open container that comprises a bottom 6 that delimits the volume-receiving moiety 2, and an annular, circular, tubular limiting surface 7 oriented upwards from this bottom, comprising a second interacting portion 8, in its open end oriented towards the first combination moiety 3.

The continuous movement must take place with good precision and accuracy. The combination
20 moieties 3 and 4 comprise a first 5 and a second portion 8, wherein the portions comprise grooves and protruding portions, respectively, and wherein the protruding portions travel in the grooves and allow for continuous movement, displacement of the two interacting combination moieties relative to each other. The grooves and the protruding portions, respectively, can be placed on the first or the second combination moiety according to choice. The grooves and the
25 protruding portions are a thread construction that enables an exact movement of the combination moieties relative to each other and also has a retaining function, when the desired measure size is set.

The measure's grooves 5 or 8 respectively the protruding portions 8 or 5 travel around the respective combination moiety 3 and 4 in a helical formation and enable movement,

displacement of the two combination moieties 3 and 4 relative to each other by twisting clockwise or anti-clockwise to increase or reduce the volume of the measure 1.

A predetermined movement/displacement of the combination moieties 3 and 4 relative to each other correspond to a specific amount, volume, alternatively weight of the beverage base,
5 corresponding to a specific final beverage with a certain strength and/or taste.

Many beverages and the beverage base used as starting point involve measuring the weight of the beverage base to ensure the result. To facilitate the preparation itself, a conversion has been made, so that a certain volume in a measure 1 corresponds to a certain weight. Depending on the beverage base to be measured, the measure is calibrated for suitable volumes and hence
10 weights.

At least one of the combination moieties comprises a marker 9, which indicates, renders visible and makes clear a performed movement, displacement, twisting of the combination moieties 3 and 4 relative to each other.

The marker can be configured in many different ways to make the reading more or less simple.
15 The marker 9 indicates a revolution movement, as one revolution corresponds to a specific amount of beverage base. The marker 9 can also indicate parts of a revolution movement, corresponding to a specific amount of beverage base.

The marker 9 comprises two moieties 3a and 3b placed on each combination moiety and in a basic position, they are located facing each other. In the case of movement of the two
20 combination moieties 3 and 4 relative to each other, a displacement of the two marker moieties 3a and 4a relative to each other indicates increased or reduced volume, weight.

The measure 1 also comprises a strickle 10, which removes the amount of beverage base that is located above the volume-receiving moiety 2 to control the space of, limit the volume-receiving moiety 2 and ensure that the correct amount of beverage base is measured.

25 The measure 1 comprises a handle 11 for holding and guiding the measure 1 down and up in a container with beverage base. The handle 11 is attached to the volume-receiving moiety 2, at the first combination moiety 3. The strickle 10 is arranged to interact with the handle 11, so that the strickle 10 can be moved lengthwise of the handle and in above the volume-receiving moiety, so that the beverage base located above and thereby outside the measure is swept

away from the volume-receiving moiety. The strickle 10 comprises a force-receiving, force-directing moiety 10a, by which it is possible, with a hand or a finger or several fingers or the like, to displace the strickle lengthwise of the handle 11 in the direction towards and from the volume-receiving moiety 2.

- 5 The strickle 10 comprises a completely or partially annular moiety 12 and an elongate portion 13, which interacts with the upper side 11a of the handle and is attached to the annular moiety 12. The annular moiety 12 constitutes the upper portion 2a of the volume-receiving moiety and during movement of the strickle 10, the annular moiety 12 pushes away the beverage base located in or above the annular moiety 12. Annular also implies other semi-annular shapes or
10 parts of an annular shape as long as the shape causes the beverage base above the first combination moiety 3 to be swept away when the strickle 10 is guided in above the first combination moiety 3.

- The elongate portion 13 of the strickle 10 comprises, on the side 13a that abuts against and interacts with the handle 11, one or more structures 14 that interact with one or several second
15 structures 15 in the handle 11 for displaceable interaction.

The first structures 14 in the elongate portion 13 comprise protruding moieties that interact with the second structure 15, which comprises recesses in the handle 11, into which the protruding moieties are inserted.

- The handle (11) comprises in its free outer end a portion (11b), which, when the measure (1) is
20 laid on a plane surface, a plane foundation, constitutes a support, which together with the volume-receiving moiety (2), causes the measure's handle (11) to lie in parallel with the surface, the foundation.

The measure 1 comprises a hanging device 16. It is suitably provided at the end of the handle 11 opposed to the volume-receiving moiety 2.

- 25 A measure 1 according to the invention is very suitable to use when the beverage base is dry and power-like.

This invention is essentially intended for the beverage base being coffee.

A measure according to the invention can also be used if the beverage base is tea. It is also possible to use the measure for other beverage bases such as rose hip powder, gruel powder and various other powders for beverages, soups, cream, pudding, mousse, purees and other powder-based products.

CLAIMS

1. A measure (1) for measuring an amount of beverage base, which is to be mixed in a vessel with a fluid beverage part, an ingredient, wherein the measure comprises a volume-receiving moiety (2)
5 comprising at least two interacting combination moieties (3, 4), wherein at least one first combination moiety (3) comprises a portion (5) interacting with the second combination moiety (4), which enables continuous movement of the two combination moieties (3, 4) relative to each other to increase or reduce the volume in the volume-receiving moiety, and wherein the first combination moiety (3) is annular and
10 comprises a first interacting portion (5) in its lower part oriented towards the second combination moiety (4), and wherein the second combination moiety comprises a bottom (6), delimiting the volume-receiving moiety (2) and limiting surfaces (7) oriented upwards from this bottom, including a second interacting portion (8) in its open end, oriented towards the first combination moiety (3).
- 15 2. A measure (1) according to claim 1, wherein the respective combination moiety comprises a first and a second portion (5, 8), wherein the portions comprise grooves and protruding portions, respectively, and wherein the protruding portions travel in the grooves and allow for continuous movement/displacement.
- 20 3. A measure (1) according to claim 2, wherein respectively the protruding portions (5, 8) travel around the respective combination moiety in a helical formation and enable movement/displacement of the two combination moieties relative to each other by twisting clockwise or anti-clockwise to increase or reduce the volume of the measure.
4. A measure (1) according to claim 2 or 3, wherein a predetermined movement/displacement of the combination moieties (3, 4) relative to each other
25 correspond to a specific amount, volume, alternatively weight of the beverage base, corresponding to a specific final beverage with a certain strength/taste.
5. A measure (1) according to any one of the claims 2-4, wherein at least one combination moiety comprises a marker (9), which indicates, renders visible and makes clear a performed movement/displacement/twisting of the combination moieties (3, 4)
30 relative to each other.

6. A measure (1) according to claim 5, wherein the marker (9) indicates a revolution movement, as one revolution corresponds to a specific amount of beverage base.
7. A measure (1) according to claim 6, wherein the marker (9) indicates parts of a revolution movement, corresponding to a specific amount of beverage base.
- 5 8. A measure (1) according to any one of claims 1-7, comprising a strickle (10), which removes the amount of beverage base that is located above the volume-receiving moiety (2) to control the space of, limit, the volume-receiving moiety.
9. A measure (1) according to claim 8, comprising a handle (11), wherein the strickle (10) is arranged to interact with the handle (11), so that the strickle (10) can be moved
10 lengthwise of the handle (11) and in above the volume-receiving moiety (2).
10. A measure according to claim 8 or 9, wherein the strickle (10) comprises a force-receiving, force-directing moiety (10a), by which it is possible, with a hand or a finger or several fingers or the like, to displace the strickle lengthwise of the handle (11) in the direction towards and from the volume-receiving moiety (2).
- 15 11. A measure (1) according to any one of claims 8-10, wherein the strickle (10) comprises an annular moiety (12) and an elongate portion (13), the bottom side (13a) of which interacts with the handle's upper side (11a) and is attached to the annular moiety (12), abutting the upper portion (2a) of the volume-receiving moiety, and which during movement of the strickle (10) sweeps away the beverage base that is located in and
20 above the annular moiety of the strickle (10).
12. A measure (1) according to any one of claims 8-11, wherein the elongate portion (13) of the strickle (10) comprises, on the side abutting against and interacting with the handle (11), protruding portions (14) that interact with recesses (15) in the handle (11) for displaceable interaction.
- 25 13. A measure (1) according to any one of claims 9-12, wherein the handle (11) at its free outer end comprises a portion (11b), which, when the measure (1) is laid on a plane surface (A), a plane foundation, constitutes a support, which together with the volume-receiving moiety (2) causes the measure's handle (11) to lie in parallel with the surface, the foundation.
- 30 14. A measure (1) according to any one of claims 1-13, comprising a hanging device (16).
15. A measure (1) according to any one of claims 1-14, wherein the beverage base is dry and powder-like.

16. A measure (1) according to claim 15, wherein the beverage base is coffee.
17. A measure (1) according to claim 15, wherein the beverage base is tea.

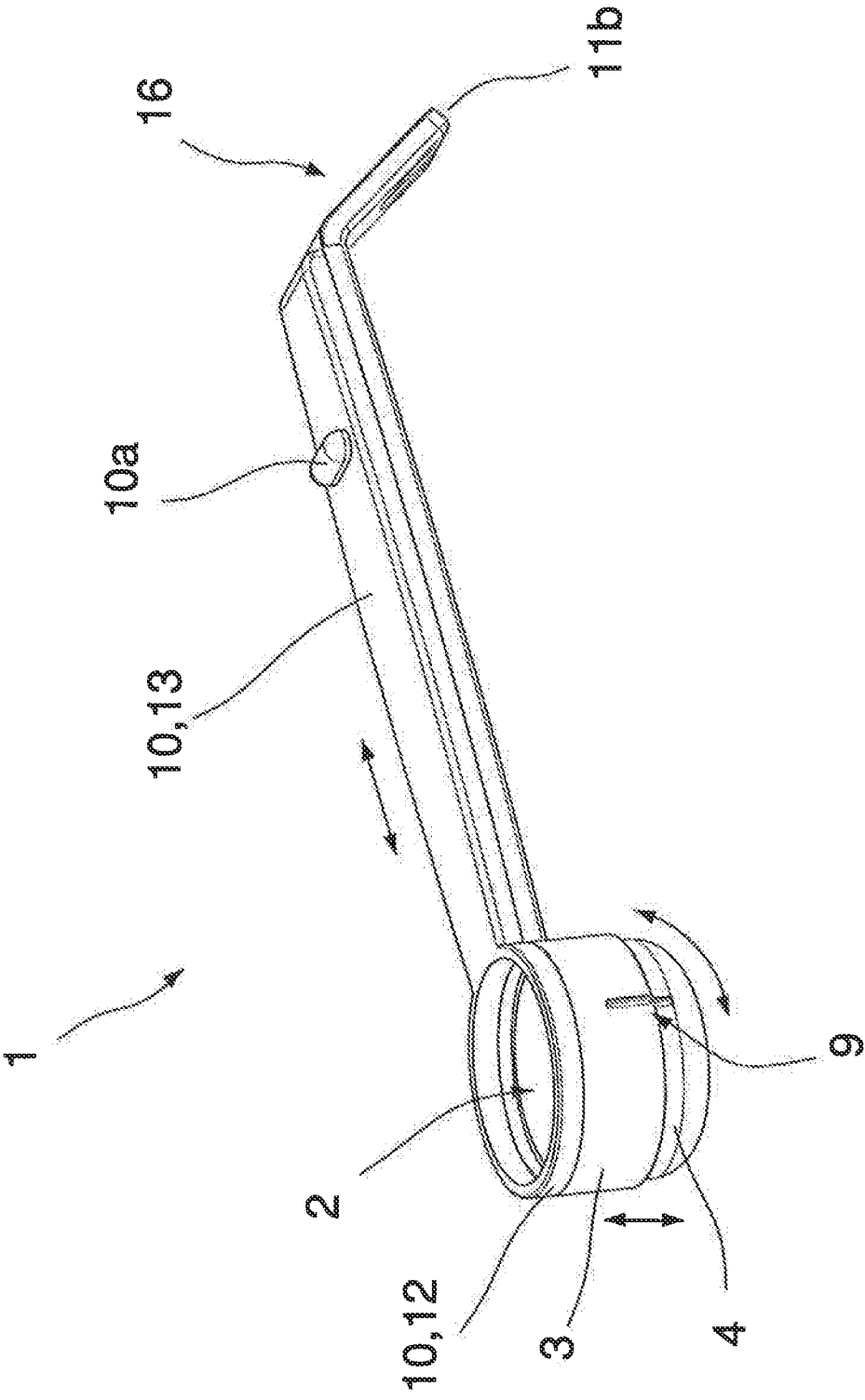


FIG.1

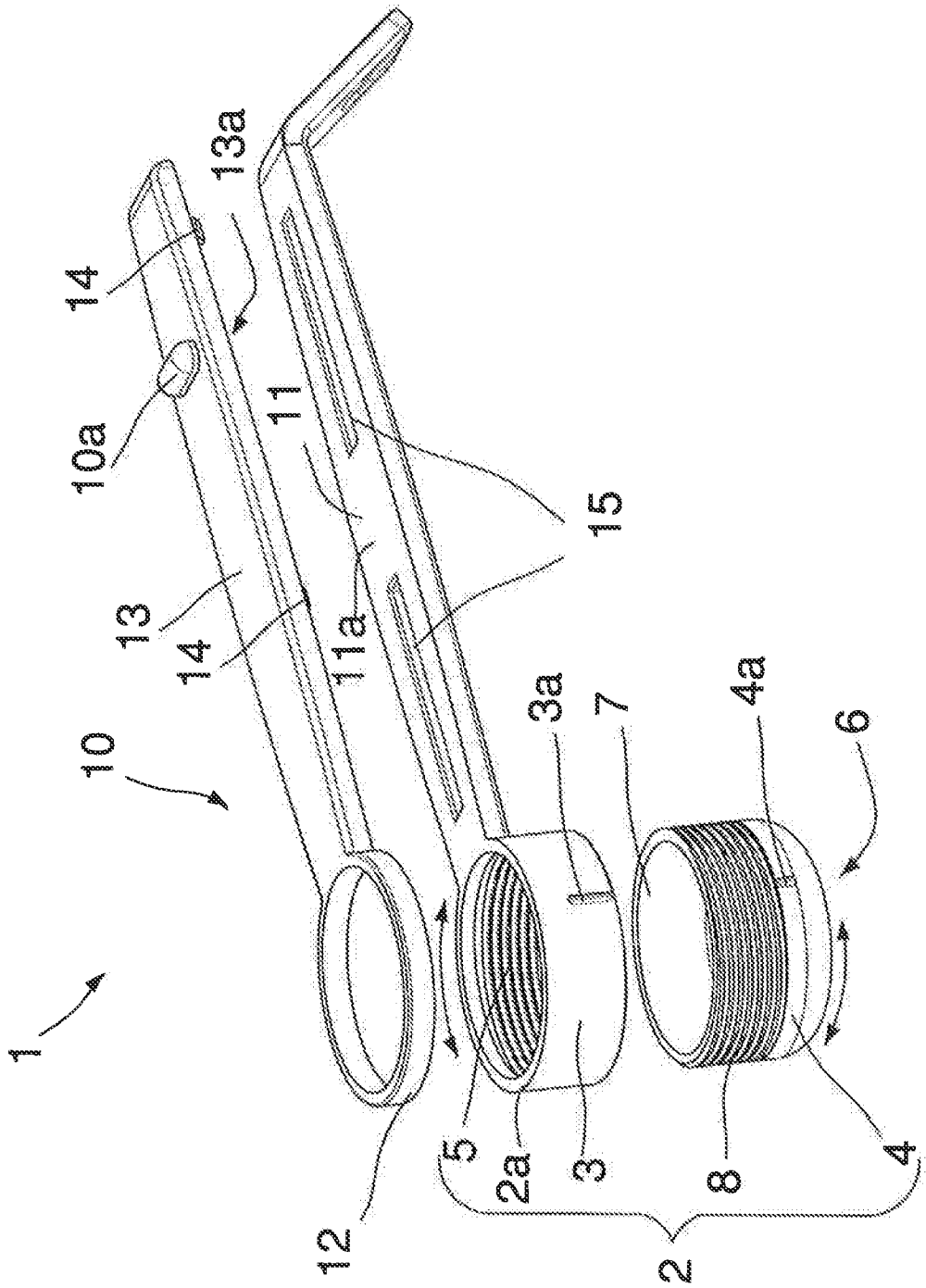


FIG.2

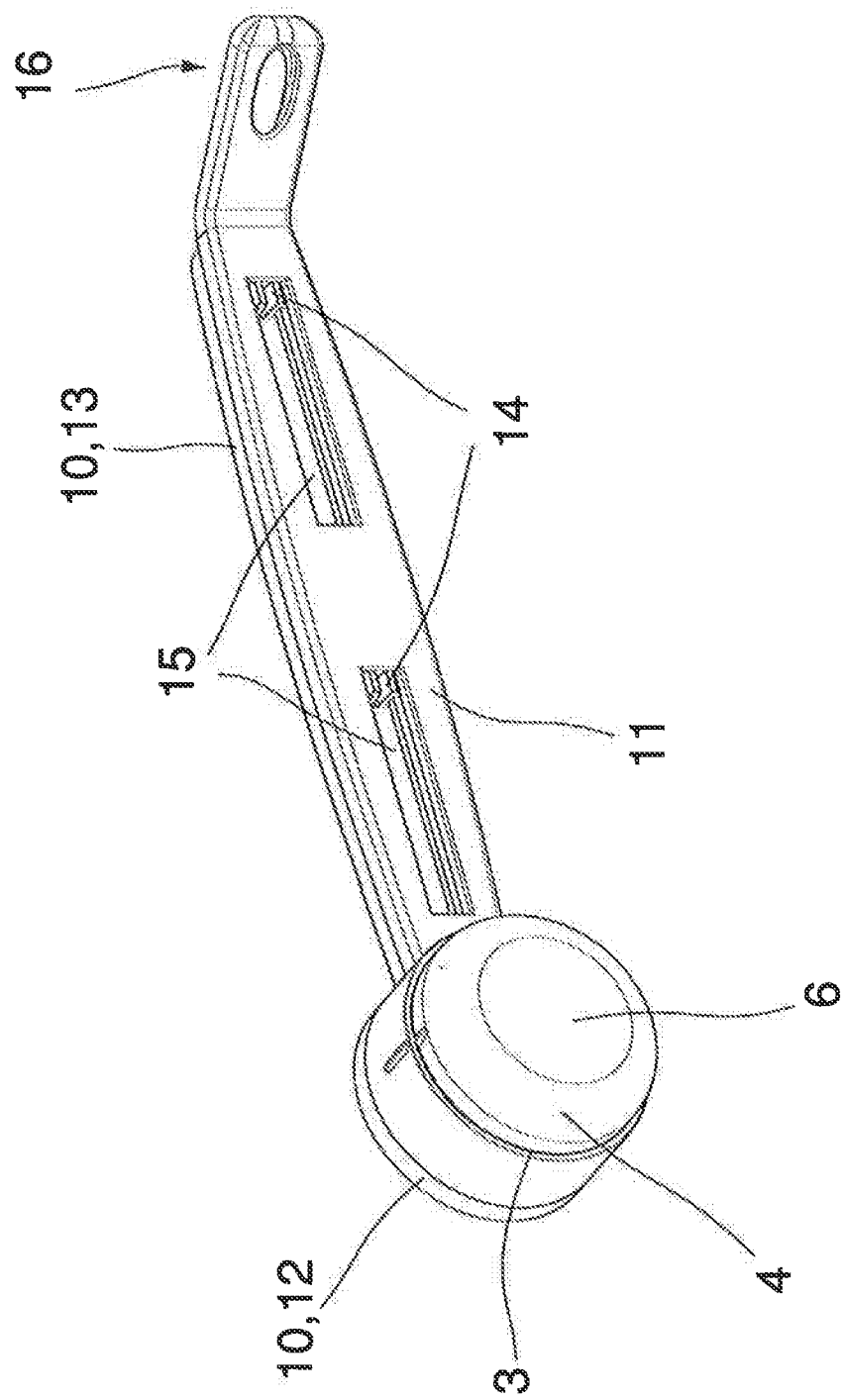


FIG.3

INTERNATIONAL SEARCH REPORT

International application No.
PCT/SE2019/051178

A. CLASSIFICATION OF SUBJECT MATTER

IPC: see extra sheet

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC: A47G, G01F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE, DK, FI, NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-Internal, PAJ, WPI data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3049926 A (VICTOR VICTOR), 21 August 1962 (1962-08-21); page 1, line 6 - page 5, line 68; figures 1-4,6,7; claim 1 --	1-17
X	GB 2540276 B (GURJIT DHALLU ET AL), 11 January 2017 (2017-01-11); page 8, line 37 - page 12, line 30; figures 1-5; claim 18	1-7, 14-17
Y	--	8-13
X	CN 102778265 A (CHENGFANG WU ET AL), 14 November 2012 (2012-11-14); whole document	1-7, 14-17
Y	--	8-13



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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"E" earlier application or patent but published on or after the international filing date	"&" document member of the same patent family
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/SE2019/051178

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 7658106 B2 (PRICE ROBERT ET AL), 9 February 2010 (2010-02-09); column 2, line 24 - line 26; column 6, line 2 - line 15; column 6, line 35 - line 43; column 7, line 44 - line 59; column 9, line 26 - line 67; figures 1,2B,3A,4A,4D	1-7, 14-17
Y	--	8-13
Y	EP 2281494 A1 (SEB SA), 9 February 2011 (2011-02-09); abstract; figures 1-2	8-13
Y	GB 2331979 A (NUTRICIA), 9 June 1999 (1999-06-09); page 6, line 6 - line 20; figure 1	8-13
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INTERNATIONAL SEARCH REPORT

Information on patent family members

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