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(54) Title: A DEVICE FOR REMOVABLY SECURING A FLAG TO A FLAG POLE

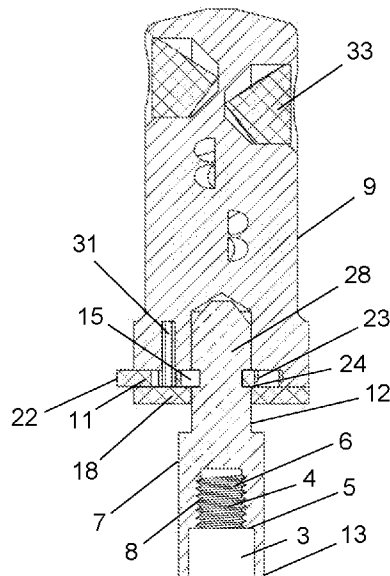


Fig. 3

(57) Abstract: A device (1) for removably securing a flag (2) to a flag pole (3) which device (1) comprises first connecting member (7) configured to be secured to the flag pole (3) and a second connecting member (9) configured to be removably secured to said first connecting member (7) and when secured to the latter act as a stop for a flag (2) which is brought over the flag pole (3). The device (1) further comprises locking means configured to removably secure the first (7) and second (9) connecting members with respect to each other, which locking means comprises a locking member which is movable between a locking position and a releasing position. The locking means further comprises biasing means configured to apply a biasing force on said locking member towards said locking position in which said biasing force is to be overcome for transferring the locking member to said releasing position.

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## ***A device for removably securing a flag to a flag pole***

### 5 TECHNICAL FIELD OF THE INVENTION

The present invention relates to a device for removably securing a flag to a flag pole which has a top portion provided with a thread, which device comprises a first connecting member provided with  
10 a thread configured to be secured to said top portion of the flag pole by engagement with said thread thereof.

Such a device is used to removably secure a flag to a thin flag pole of the type that may be used at a construction site or the like,  
15 but such a flag pole commonly used at golf courses may be mentioned as a typical example without restricting the invention thereto. Such a flag pole is provided with a flag of a specific shape or color, depending on the location or use of the flag pole. The flag poles on a golf course may as an example be provided with  
20 flags of a specific color or provided with the print of a sponsor logotype during a certain golf tournament, which flags then have to be replaced with flags of another color used during golf practice or the like.

### 25 BACKGROUND ART

A device of the type defined in the introduction is already known through the document US 2006/0260532 A1, as an example.

30 Said document discloses a flag and pole assembly, which comprises a flag, a flag pole and a said first connecting member in the form of capping nut. The flag is configured to be slipped over the flag pole which pole is provided with a threaded protrusion extending from a top end thereof. The capping nut has  
35 an inner thread configured to be engaged with the threaded

protrusion so as to secure the flag to the flag pole by acting as a stop for the flag at the top of said pole.

5 One problem with such devices already known, through for example said document, is that it is time consuming to replace the flag on the flag pole as this process includes unscrewing the capping nut from the threaded protrusion and then screwing said nut back to said protrusion. A golf course may be provided with numerous of flags and if these are to be replaced often the time  
10 it takes to replace each flag has great influence on the total working time that has to be spent by the worker that makes the replacements.

#### 15 SUMMARY OF THE INVENTION

The object of the present invention is to provide a device of the type defined in the introduction being improved in at least some aspect with respect to such devices already known, through for example said document.

20 This object is according to the invention obtained by providing such a device with:

- 25 • a second connecting member configured to be removably secured to said first connecting member and when secured to the latter act as a stop for a portion of a flag that has been brought over the flag pole and the first connecting member, and
- 30 • locking means configured to removably secure the first and second connecting members with respect to each other, which locking means comprises a first locking member arranged on one of the first and second connecting members, and a second locking member arranged on the other connecting member, said first  
35 locking member is movable between a locking position in which it is configured to be in locking engagement

with the second locking member and a releasing position in which it allows said second connecting member to be removed from the first connecting member, said locking means further comprises biasing means configured to apply a biasing force on said first locking member towards said locking position and to keep it in this position once obtained, in which said biasing force is to be overcome for transferring the first locking member to said releasing position and allowing removal of the second connecting member from the first connecting member.

Such a device allows quickly replacement of the flag of the flag pole by moving the first locking member to the releasing position and then removing the second connecting member from the first connecting member so as to allow the flag to be removed from the flag pole, and when another flag is brought over the flag pole and the first connecting member securing this flag by securing the second connecting member to the first connecting member by movement of the first locking member to the locking position by action of said biasing means. Thus, the connection of the device to the flag pole by threaded engagement is taken care of by a said first connecting member which has not to be moved when changing flag but the possible speed of changing flag will solely be dependent upon the construction of said locking means.

According to an embodiment of the invention the locking means is configured to allow securing of the second connecting member to the first connecting member by movement of the second connecting member from above towards the first connecting member in the longitudinal direction of the flag pole to a determined position in which the first and second locking members are mutually aligned in such a way, that the first locking member is allowed to be automatically transferred to said locking position by action of the biasing means. The fact that the first locking member is configured to be automatically transferred to

said locking position as the second connecting member is moved towards the first connecting member from above implies that the time that it takes to secure a flag to the flag pole is minimized and that this procedure requires minimum effort by a user who secures  
5 the flag.

According to an embodiment of the invention the biasing means is configured to apply a biasing force on the first locking member such that the latter is configured to be moved between said  
10 releasing and locking positions in a direction perpendicular or at least substantially perpendicular to the longitudinal direction of the flag pole when the first connecting member is secured to the flag pole. This promote a secure interlocking of the two connecting members in the locking state of the locking means.

15 According to an embodiment of the invention one of said locking members comprises a projection and the other locking member comprises a recess, into which recess said projection is configured to project when the first locking member is in said  
20 locking position to secure the second connecting member to the first connecting member. Such a locking engagement by said locking members is simple and suitable for this purpose.

According to an embodiment of the invention the connecting  
25 member with the first locking member has an elongated recess extending at least substantially in the longitudinal direction of the flag pole, the second locking member is a projection extending from a portion of the other connecting member, and said projection of said other connecting member is configured to be  
30 inserted in said elongated recess and secured in said recess by engagement with the first locking member when the second connecting member is secured to the first connecting member. The interconnection of the securing members by interaction between said elongated recess and said projection ensures that  
35 a steady interconnection of said members may be established.

According to an embodiment of the invention the first locking member has an elongated body provided with a through-hole extending perpendicularly or at least substantially perpendicularly to the extension of said body, and said first locking member is arranged in said connecting member with the first locking member to have said through-hole aligned with an opening to said elongated recess when the first locking member is moved against the biasing force of the biasing means to the releasing position, and to have the through-hole located offset with respect to said opening of the elongated recess when the first locking member is moved to the locking position by action of the biasing means.

According to an embodiment of the invention said projection has a top portion defined by a narrower neck portion which top portion has a tapered top end, said tapered end is configured to be inserted in the through-hole of the first locking member when said projection is introduced in said elongated recess and to move the first locking member towards the releasing position as the projection is brought further into the elongated recess, and the first locking member is configured to be snapped to the locking position by action of the biasing means when the entire top portion of the projection is brought through the through-hole of the first locking member and to act as a stop for the top portion of the projection so that said top portion is secured in the elongated recess when the first locking member is in the locking position.

According to an embodiment of the invention said projection is pin-like.

According to an embodiment of the invention the second connecting member comprises said first locking member and the first connecting member comprises said second locking member.

According to an embodiment of the invention the locking means further comprises a locking element arranged on the connecting

member with the first locking member and configured to limit the movement of the first locking member between the locking and releasing positions by obstructive engagement with parts of the first locking member when the latter has obtained the respective  
5 positions. Said locking element acts to prevent that the first locking member comes out of position which could impair the function thereof.

10 According to an embodiment of the invention a first end portion of the first locking member opposite to a second end portion of this member acted upon by the biasing means is configured to protrude out of an opening in an outer surface of a body of the connecting member with the first locking member so as to allow  
15 movement of the first locking member to the releasing position by pushing the first locking member against the action of the biasing means by said first end. The second connecting member may easily be removed from the first connecting member by pushing the first locking member to the releasing position by such a protruding first end.

20 According to an embodiment of the invention the biasing means comprises a spring member acting between the first locking member and portions of the connecting member provided with the first locking member.

25 According to an embodiment of the invention said spring member is a compression spring. A compression spring is especially suitable for use as such a spring member.

30 According to an embodiment of the invention the device further comprises a light reflector, preferably a prism reflector, arranged on the second connecting member. The second connecting member may easily be designed to allow securing of a light reflector thereto and by that to the flag pole, without that it  
35 complicates the replacement of the flag of the flag pole.

The invention also relates to a flag arrangement comprising a device according to the invention, as well as use of such a flag arrangement according to the respective appended independent claims. The function of such a flag arrangement and the possibilities provided therethrough is clear from the above discussion of the embodiments of such a device.

Further advantages as well as advantageous features of the invention will appear from the following description of an embodiment of the invention.

#### BRIEF DESCRIPTIONS OF THE DRAWINGS

With reference to the appended drawings, below follows a specific description of an embodiment of the invention cited as an example.

In the drawings:

- 20 Fig. 1 is a schematic side-view of a flag pole provided with a flag which is secured thereto by a device according to the invention which together form a flag arrangement, with an enlarged view of the circled area A showing a top portion of the flag pole,
- 25 Fig. 2 is an enlarged view showing the device of Fig. 1,
- Fig. 3 is a sectional view showing a cross-section of the device of Fig. 1 in the intersection A of Fig. 2,
- 30 Fig. 4 is a view corresponding to Fig. 3 with the second connecting member located in a position in which it is released from the first connecting member,
- 35 Fig. 5 is an exploded perspective view showing the individual parts of the device of Fig. 1,

- Fig. 6 is a bottom view showing the second connecting member of the device of Fig. 1 with the first locking member in the releasing position, and
- 5 Fig. 7 is a view corresponding to Fig. 6 with the first locking member in the locking position.

#### DETAILED DESCRIPTION OF AN EMBODIMENT OF THE INVENTION

10

A device 1 for removably securing a flag 2 to a flag pole 3 according to an embodiment of the invention is illustrated in the appended figures 1-7 and will now be described while at the same time making reference to all these figures. The flag pole 3 is

15 suitable for use at a golf course and has a protrusion 4 extending from a top portion 5 thereof, which protrusion is provided with an outer thread 6.

The device 1 comprises a first connecting member 7 with an inner thread 8 configured to be secured to said protrusion 4 of the flag pole 3 by engagement with said outer thread 6 thereof. The device 1 further comprises a second connecting member 9 configured to be removably secured to said first connecting member 7 and when secured to the latter act as a stop for a tube-like portion 10 of a

20 flag 2 that has been brought over the flag pole 3 and the first connecting member 7.

25

The device 1 further comprises locking means configured to removably secure the first 7 and second 9 connecting members with respect to each other. The locking means comprises a first locking member 11 arranged at the second connecting member 9, and a second locking member in the form of a pin-like projection 12 extending from a portion 13 of the first connecting member 7, which portion 13 is provided with said inner thread 8. The first

30 locking member 11 is movable between a locking position in which it is in locking engagement with the pin-like projection 12 and a

35

releasing position in which it allows said second connecting member 9 to be removed from the first connecting member 7.

5 The first locking member 11 has an elongated plate-like body 14 provided with a recess in the form of a through-hole 15 extending perpendicularly or at least substantially perpendicularly to the extension of said body. The first locking member is housed in a guide recess 16 in a bottom part of a body 17 of the second connecting member 9. A bottom plate 18 provided with a hole 18a  
10 is secured to the bottom of said body 17 by screws 19 so as to act as a stop for the first locking member 11 from the bottom side of the second connecting member 9. The guide recess 16 has an opening 20 in an outer peripheral surface 21 of said body 17 of the second connecting member 9, out of which opening a first end  
15 portion 22 of the first locking member 11 protrudes.

The locking means further comprises biasing means in the form of a compression spring 23 configured to apply a biasing force on said first locking member 11 towards said locking position and to  
20 keep it in this position once obtained, in which said biasing force is to be overcome for transferring the first locking member to said releasing position and allowing removal of the second connecting member 9 from the first connecting member 7. The compression spring 23 is arranged in said guide recess 16 of the second  
25 connecting member 9 and configured to apply said biasing force on the first locking member 11 such that the latter is moved between said releasing and locking positions in a direction perpendicular to the longitudinal direction of the flag pole 3 when the first connecting member 7 is secured to the flag pole, by  
30 acting between a second end portion 24 of the first locking member 11 and portions 25 of said guide recess.

The second connecting member 9 further has an elongated recess 26 extending at least substantially in the longitudinal  
35 direction of the flag pole 3 when the second connecting member is secured to the first connecting member 7. The first locking

member 11 is arranged in the second connecting member 9 to have said through-hole 15 aligned with an opening 27 to said elongated recess 26 when the first locking member is moved against the biasing force of the compression spring 23 to the releasing position, and to have the through-hole 15 located offset with respect to said opening 27 of the elongated recess 26 when the first locking member 11 is moved to the locking position by action of the compression spring 23.

10 The pin-like projection 12 of the first connecting member 7 has a top portion 28 defined by a narrower neck portion 29, which top portion has a tapered top end 30. Said tapered top end is configured to be inserted in the through-hole 15 of the first locking member 11 when the pin-like projection 12 is introduced in the elongated recess 26 of the second connecting member 9 through the hole 18b of said bottom plate 18 and to move the first locking member towards the releasing position as the projection 12 is brought further into the elongated recess by guiding the through-hole 15 along an outer surface of the tapered top end 30 towards a transition between the tapered top end and the top portion 28 of the pin-like projection 12. The first locking member 11 is configured to be snapped to the locking position by action of the compression spring 23 when the entire top portion 28 of the projection 12 is brought through the through-hole 15 of the first locking member 11 and to act as a stop for the top portion of the projection so that said top portion is secured in the elongated recess 26 when the first locking member is in the locking position.

The locking means further comprises a locking element in the form of a pin 31 arranged at the second connecting member 9 and configured to limit the movement of the first locking member 11 between the locking and releasing positions by obstructively engaging parts in the form of inner surfaces of an elongated hole 32 of the first locking member when said member has obtained the respective positions.

The second connecting member 9 is further provided with a light reflector in the form of a prism reflector 33 which is used to reflect a beam of light directed thereto by a rangefinder for measuring the distance to a golf hole, as an example. The second connecting member may also be provided with other objects suitable for use at a flag pole.

Hereinafter a replacement of the flag 2 on the flag pole 3 by use of said device 1 is shortly described.

10

A worker at a golf course pushes the first locking member 11 on said first end 22 thereof against the action of the compression spring 23 to the releasing position. The through-hole 15 of the first locking member is aligned with the elongated recess 26 of the second connecting member 9 once said position is obtained (see Fig. 6) and the top portion 28 of the pin-like projection 12 may be brought out of said recess by easily lifting the second connecting member from the first connecting member 7.

20 The flag 2 may now be replaced by another while the first connecting member remains on the flag pole 3. The worker then secures the second connecting member 9 to the first connecting member 7 by moving the second connecting member from above towards the first connecting member in the longitudinal direction of the flag pole 3 (see Fig. 4) to a determined position in which the first 11 and second 12 locking members are mutually aligned which means that the entire top portion 28 of the pin-like projection 12 is brought through the through-hole 15 of the first locking member 11 so that said member is automatically transferred to said locking position by action of the compression spring 23 (see Fig. 3). This means that the only action required by the worker to secure the second connecting member to the first connecting member is to move said second member from above towards and onto said first member.

35

The invention is of course not in any way restricted to the embodiment thereof described above, but many possibilities to modifications thereof will be apparent to a person with ordinary skill in the art without departing from the scope of the invention as defined in the appended claims.

A “flag” is in this disclosure to be interpreted as a flag assembly, which in addition to the flag itself comprises one or more portions or elements for attaching the flag to a flag pole, e.g. a tube-like portion, metal rings or a wire.

Although the device according to the invention is configured to removably secure a flag to a flag pole it is clear from the description of the function of the device that this also may be used to removably secure an object such as a prism reflector to a thin pole that is not provided with a flag.

A “recess” is in this disclosure to be interpreted as also including a hole without a bottom.

That a projection or the like is brought into a recess is in this disclosure to be interpreted as also including that the projection is passively brought into the recess by pushing a body provided with the recess over said projection.

The connecting action between the first and second connecting members by the locking means may also be performed by magnetism. This means that at least one of the locking members arranged on any of the connecting members may comprise one or a plurality of magnets and that the other locking member arranged on the other connecting member then comprises one or a plurality of magnets or one or a plurality of parts which consist of a material that interacts with magnets, such as a metal.

The second locking member may in such a case as an example comprise one or a plurality of metal washers arranged along a

circular ledge extending around a lower portion of a pin-like projection extending from a portion of the first connecting member. The first locking member may then comprise one or a plurality of magnets arranged along a circular rim defining an opening to an elongated recess at the bottom of the second connecting member. The first locking member may in such a case be movable between a locking position in which the magnets of the respective locking members are aligned and in locking engagement with each other as a surface of said ledge provided with magnets facing a surface of said rim provided with magnets are in contact and said pin-like projection is brought into said elongated recess, and a releasing position in which the magnets of the respective locking members are located at a distance to each other by a rotating movement of the second connecting member with respect to the first connecting member, so that the first locking member allows said second connecting member to be removed from the first connecting member. The biasing means is in this case said one or a plurality of magnets of the first locking member.

20

## CLAIMS

1. A device (1) for removably securing a flag (2) to a flag pole (3) which has a top portion (5) provided with a thread (6),  
5 which device (1) comprises:
- a first connecting member (7) provided with a thread (8) configured to be secured to said top portion (5) of the flag pole (3) by engagement with said thread (6) thereof,
- 10 **characterized** in that the device (1) further comprises:
- a second connecting member (9) configured to be removably secured to said first connecting member (7) and when secured to the latter act as a stop for a portion (10) of a flag (2) that has been brought over  
15 the flag pole (3) and the first connecting member (7), and
  - locking means configured to removably secure the first (7) and second (9) connecting members with respect to each other, which locking means comprises a first  
20 locking member (11) arranged on one (9) of the first and second connecting members, and a second locking member (12) arranged on the other connecting member (7), that said first locking member (11) is movable between a locking position in which it is  
25 configured to be in locking engagement with the second locking member (12) and a releasing position in which it allows said second connecting member (9) to be removed from the first connecting member (7), and that said locking means further comprises biasing means (23) configured to apply a biasing force on said  
30 first locking member (11) towards said locking position and to keep it in this position once obtained, in which said biasing force is to be overcome for transferring the first locking member (11) to said releasing position and allowing removal of the second connecting  
35 member (9) from the first connecting member (7).

2. The device (1) according to claim 1, **characterized** in that the locking means is configured to allow securing of the second connecting member (9) to the first connecting member (7) by movement of the second connecting member (9) from above towards the first connecting member (7) in the longitudinal direction of the flag pole (3) to a determined position in which the first (11) and second (12) locking members are mutually aligned in such a way, that the first locking member (11) is allowed to be automatically transferred to said locking position by action of the biasing means (23).
3. The device (1) according to claim 1 or 2, **characterized** in that the biasing means (23) is configured to apply a biasing force on the first locking member (11) such that the latter is configured to be moved between said releasing and locking positions in a direction perpendicular to the longitudinal direction of the flag pole (3) when the first connecting member (7) is secured to the flag pole (3).
4. The device (1) according to any of the preceding claims, **characterized** in that one (7) of said locking members comprises a projection (12) and the other locking member (9) comprises a recess (15), into which recess (15) said projection (12) is configured to project when the first locking member (11) is in said locking position to secure the second connecting member (9) to the first connecting member (7).
5. The device (1) according to any of the preceding claims, **characterized** in that the connecting member (9) with the first locking member (11) has an elongated recess (26) extending at least substantially in the longitudinal direction of the flag pole (3), that the second locking member is a projection (12) extending from a portion (13) of the other connecting member (7), and that said projection (12) of said

- 5 other connecting member (7) is configured to be inserted in said elongated recess (26) and secured in said recess (26) by engagement with the first locking member (11) when the second connecting member (9) is secured to the first connecting member (7).
- 10 6. The device (1) according to claim 5, **characterized** in that the first locking member (11) has an elongated body (14) provided with a through-hole (15) extending perpendicularly or at least substantially perpendicularly to the extension of said body (14), and that said first locking member (11) is arranged in said connecting member (9) with the first locking member (11) to have said through-hole (15) aligned with an opening (27) to said elongated recess (26) when the first locking member (11) is moved against the biasing force of the biasing means (23) to the releasing position, and to have the through-hole (15) located offset with respect to said opening (27) of the elongated recess (26) when the first locking member (11) is moved to the locking position by action of the biasing means (23).
- 15 20
- 25 7. The device (1) according to claim 6, **characterized** in that said projection (12) has a top portion (28) defined by a narrower neck portion (29) which top portion (28) has a tapered top end (30), that said tapered end (30) is configured to be inserted in the through-hole (15) of the first locking member (11) when said projection (12) is introduced in said elongated recess (26) and to move the first locking member (11) towards the releasing position as the projection (12) is brought further into the elongated recess (26), and that the first locking member (11) is configured to be snapped to the locking position by action of the biasing means (23) when the entire top portion (28) of the projection (12) is brought through the through-hole (15) of the first locking member (11) and to act as a stop for the top portion (28) of the projection (12) so that said top portion (28) is secured in the elongated
- 30 35

recess (26) when the first locking member (11) is in the locking position.

- 5 8. The device (1) according to any of the claims 4-7, **characterized** in that said projection (12) is pin-like.
- 10 9. The device (1) according to any of the preceding claims, **characterized** in that the second connecting member (9) comprises said first locking member (11) and the first connecting member (7) comprises said second locking member (12).
- 15 10. The device (1) according to any of the preceding claims, **characterized** in that the locking means further comprises a locking element (31) arranged on the connecting member (9) with the first locking member (11) and configured to limit the movement of the first locking member (11) between the locking and releasing positions by obstructive engagement with parts of the first locking member (11) when the latter has
- 20 obtained the respective positions.
- 25 11. The device (1) according to any of the preceding claims, **characterized** in that a first end portion (22) of the first locking member (11) opposite to a second end portion (24) of this member (11) acted upon by the biasing means (23) is configured to protrude out of an opening (20) in an outer surface (21) of a body (17) of the connecting member (9) with the first locking member (11) so as to allow movement of the first locking member (11) to the releasing position by pushing
- 30 the first locking member (11) against the action of the biasing means (23) by said first end (22).
- 35 12. The device (1) according to any of the preceding claims, **characterized** in that the biasing means comprises a spring member (23) acting between the first locking member (11)

and portions of the connecting member (9) provided with the first locking member (11).

- 5 13. The device (1) according to claim 12, **characterized** in that said spring member is a compression spring (23).
- 10 14. The device (1) according to any of the preceding claims, **characterized** in that the device (1) further comprises a light reflector (33), preferably a prism reflector, arranged on the second connecting member (9).
- 15 15. A flag arrangement comprising a flag pole (3) and a flag (2), which flag pole (3) has a protrusion (4) extending from a top portion (5) thereof and which protrusion (4) is provided with an outer thread (6), **characterized** in that the flag arrangement further comprises a device (1) according to any of the claims 1-14.
- 20 16. Use of a flag arrangement according to claim 15 on a golf course.

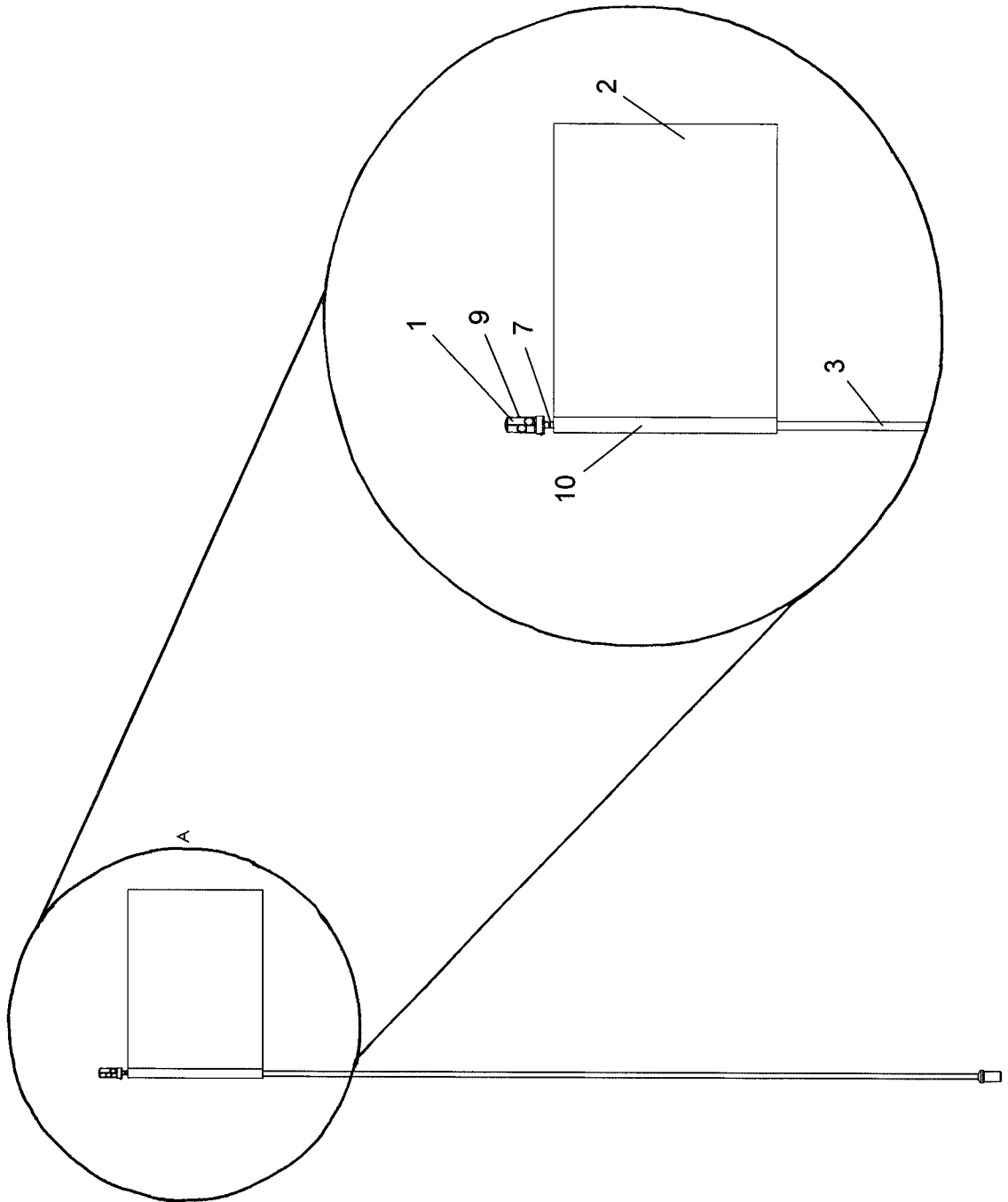


Fig. 1

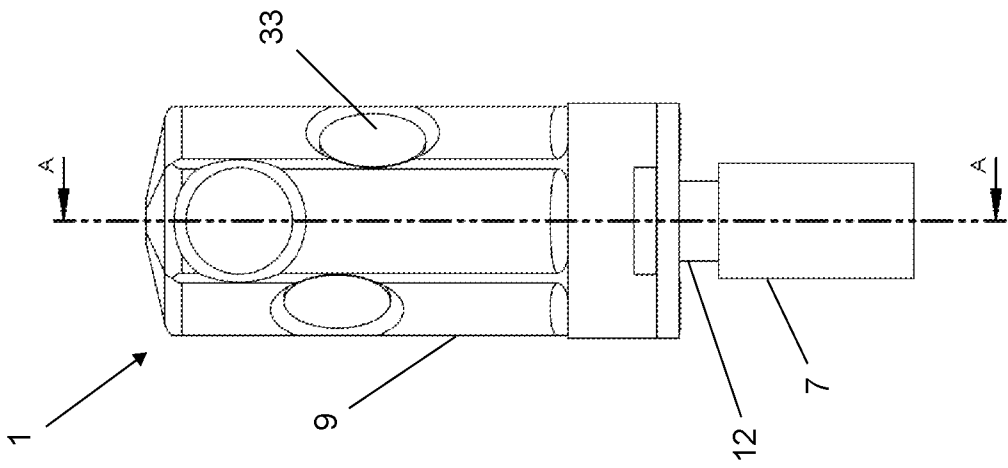


Fig. 2

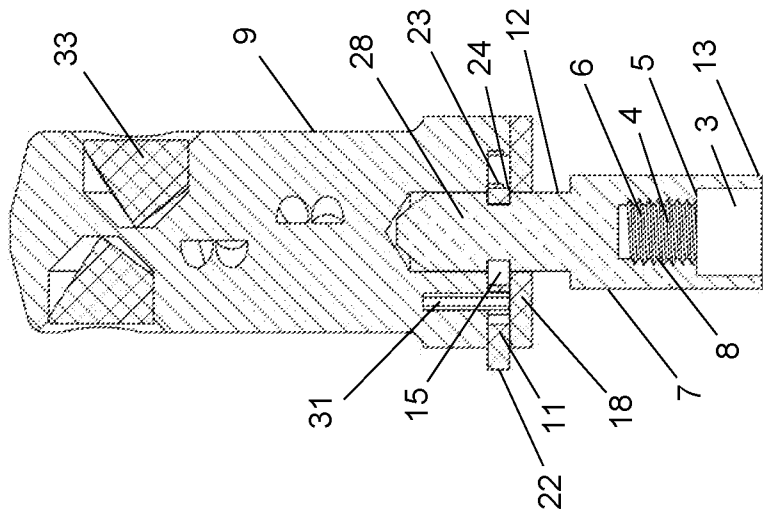


Fig. 3

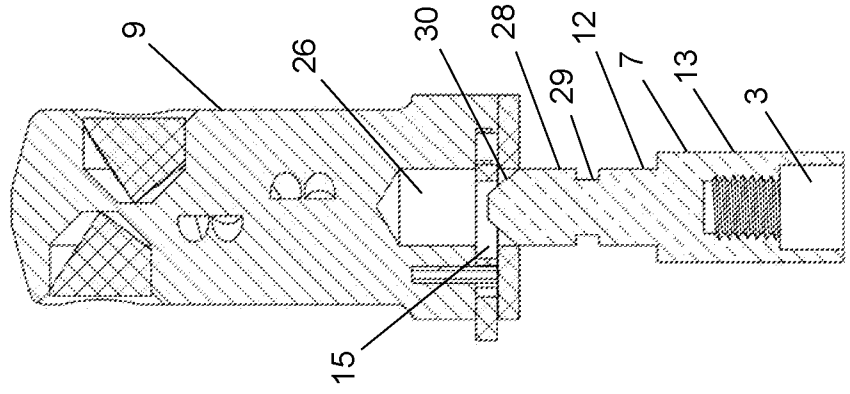


Fig. 4

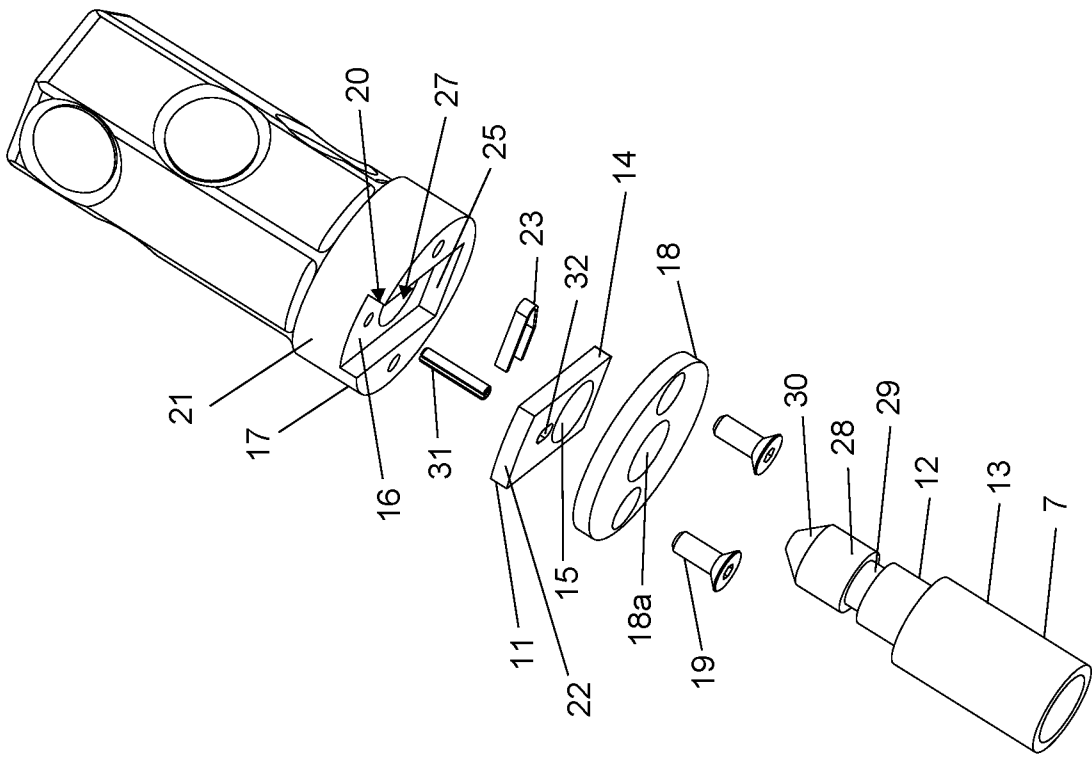


Fig. 5

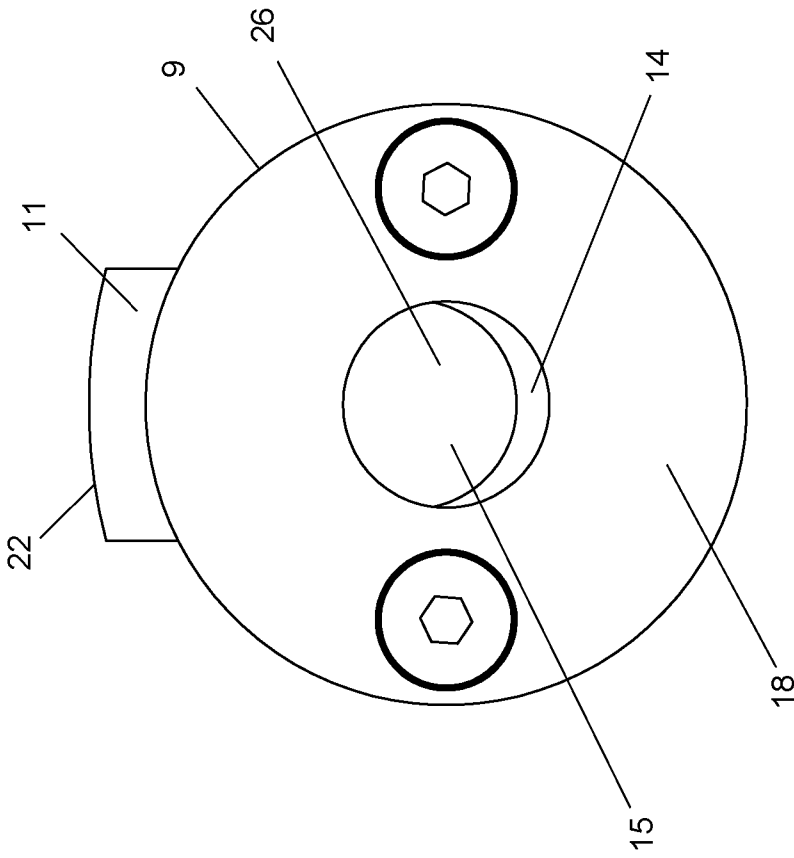


Fig. 7

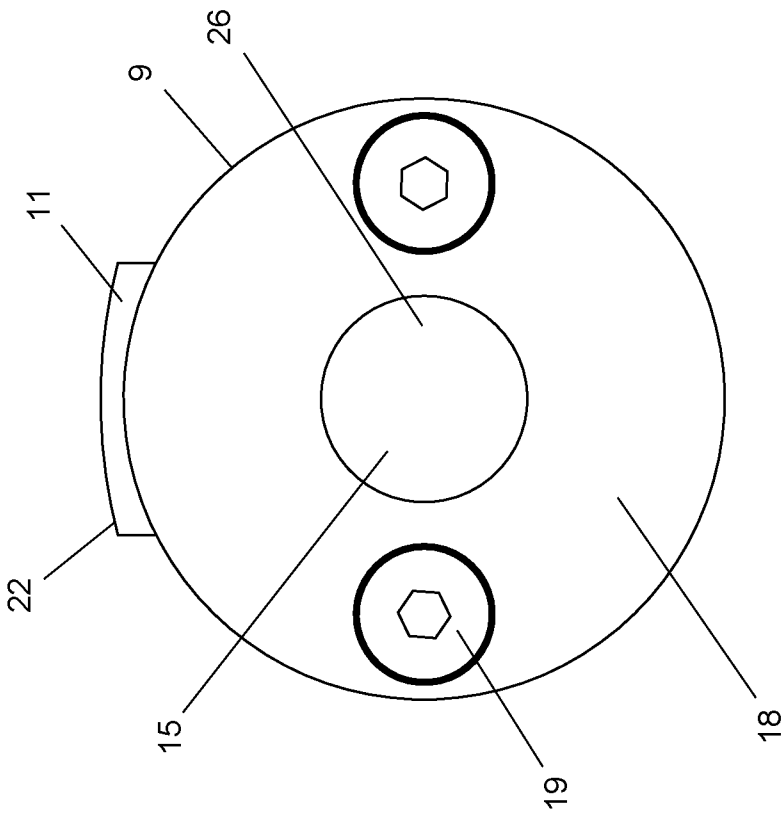


Fig. 6

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/SE2015/050713

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: A63B, G09F		
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 6595364 B1 (PALERMO JR ANTHONY ET AL), 22 July 2003 (2003-07-22); abstract; column 5, line 1 - line 31; column 4, line 43 - line 67; figures 3-5 --	1-16
X	KR 20120001440 U (REDROVER CO LTD), 4 January 2012 (2012-01-04); abstract; page 4, paragraph [0003] - page 6, paragraph [0004]; figures 3-6 --	1-16
A	US 7421972 B1 (LONG KIM K), 9 September 2008 (2008-09-09); abstract; column 4, line 15 - column 5, line 40; figures 1-2 --	1-16
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "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 "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 "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 "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search		Date of mailing of the international search report
23-09-2015		23-09-2015
Name and mailing address of the ISA/SE Patent- och registreringsverket Box 5055 S-102 42 STOCKHOLM Facsimile No. + 46 8 666 02 86		Authorized officer Tommy Blomberg Telephone No. + 46 8 782 28 00

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/SE2015/050713

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 20080282960 A1 (SHERROD KATHERINE R), 20 November 2008 (2008-11-20); abstract; paragraph [0030]; figure 3B --	1-16
A	DE 29801898 U1 (JUELICH OLAF), 3 September 1998 (1998-09-03); page 4, paragraph [0004]; figure 1 --	1-16
A	DE 202005008876 U1 (CP & FRIENDS HONG KONG QUARRY), 3 November 2005 (2005-11-03); abstract; paragraph [0015]; figure 1 -- -----	1-16

**Continuation of:** second sheet

**International Patent Classification (IPC)**

**G09F 17/00** (2006.01)

**A63B 57/00** (2015.01)

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International application No.

PCT/SE2015/050713

US	6595364	B1	22/07/2003	NONE			
KR	20120001440	U	04/01/2012	KR	101123099	B1	16/03/2012
US	7421972	B1	09/09/2008	NONE			
US	20080282960	A1	20/11/2008	US	7942108	B2	17/05/2011
DE	29801898	U1	03/09/1998	NONE			
DE	202005008876	U1	03/11/2005	NONE			