

631165

CONVENTION

AUSTRALIA

Patents Act

APPLICATION FOR A STANDARD PATENT

Les Robinets Presto
7, rue Racine, 92120 Montrouge, FRANCE

hereby applies for the grant of a standard patent for an invention entitled:

SAFETY DEVICE FOR ASSEMBLING TOGETHER THE TWO PARTS OF A TAP BODY

which is described in the accompanying complete specification.

Details of basic application(s):-

88 17065 FRANCE

23 December 1988

Address for Service:

PHILLIPS ORMONDE & FITZPATRICK
Patent and Trade Mark Attorneys
367 Collins Street
Melbourne 3000 AUSTRALIA

DATED this TWENTY SECOND day of DECEMBER 1989

PHILLIPS ORMONDE & FITZPATRICK
Attorneys for:
Les Robinets Presto

By:

Our Ref : 155699
POF Code: 1555/85385

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DECLARATION FOR A PATENT APPLICATION

▼ INSTRUCTIONS

(a) Insert "Convention" if applicable
(b) Insert FULL name(s) of applicant(s)

(c) Insert "of addition" if applicable
(d) Insert TITLE of invention

(e) Insert FULL name(s) AND address(es) of declarant(s)
(See headnote*)

(f) Insert FULL name(s) AND address(es) of actual inventor(s)

(g) Recite how applicant(s) derive(s) title from actual inventor(s)
(See headnote**)

(h) Insert country, filing date, and basic applicant(s) for the/or EACH basic application

(k) Insert PLACE of signing

(l) Insert DATE of signing

(m) Signature(s) of declarant(s)

Note: No legalization or other witness required

In support of the ^(a) convention application made by

(b)

LES ROBINETS PRESTO

(hereinafter called "applicant(s) for a patent ^(c) for an invention entitled ^(d)

SAFETY DEVICE FOR ASSEMBLING TOGETHER THE TWO PARTS OF A TAP BODY

I/W^c ^(e) Mr Rosario Di Maggio, Director of Les Robinets Presto:
7, rue Racine, 92120 Montrouge, France

do solemnly and sincerely declare as follows:

i. ~~I am/We are the applicant(s).~~

(or, in the case of an application by a body corporate)

1. I am/We are authorized to make this declaration on behalf of the applicant(s).

2. ~~I am/We are the actual inventor(s) of the invention.~~

(or, where the applicant(s) is/are not the actual inventor(s))

2. ^(f)

Daniel Dutheil: 12 Allee des Mimosas, 17132 Mescheres, France

is/are the actual inventor(s) of the invention and the facts upon which the applicant(s) is/are entitled to make the application are as follows:

(g) The applicant is the assignee of the invention from the said actual inventor.

(Note: Paragraphs 3 and 4 apply only to Convention applications)

3. The basic application(s) for patent or similar protection on which the application is based is/are identified by **country, filing date, and basic applicant(s)** as follows:

(h) France

23 December, 1988

LES ROBINETS PRESTO

4. The basic application(s) referred to in paragraph 3 hereof was/were the first application(s) made in a Convention country in respect of the invention the subject of the application.

Declared at ^(k) France, Paris

Dated ^(l) 21 November, 1989

(m)

Mr Rosario Di Maggio

Director

To: The Commissioner of Patents

(12) PATENT ABRIDGMENT (11) Document No. AU-B-47297/89
(19) AUSTRALIAN PATENT OFFICE (10) Acceptance No. 631165

(54) Title
TAP BODY ASSEMBLY ANTI-TAMPER DEVICE

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(56) Prior Art Documents
DE 2161762
GB 2194837
EP 63627

(57) Claim

1. A mixing cock consisting of a body in two parts which fit into each other axially, assembled by means of first radial screws, wherein the radial screws are hidden under a ring, which is axially immobilised on an outer part of the body, is free to rotate about the axis of the body and has a hole for access to the said screws.

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COMPLETE SPECIFICATION
(ORIGINAL)

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Related Art:

Applicant(s):

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Complete Specification for the invention entitled:

SAFETY DEVICE FOR ASSEMBLING TOGETHER THE TWO PARTS OF A TAP BODY

Our Ref : 155699
POF Code: 1555/85385

The following statement is a full description of this invention, including the best method of performing it known to applicant(s):

The present invention relates to a safety device for assembling together the two parts of a tap body.

Most taps have a body made from two assembled parts, one of which is fixed to the support whereas the second comprises the spout. Assembly of the two parts is achieved by means of a shouldered nut.

Access to this nut is very easy and it may be readily unscrewed by an ill-disposed person.

The purpose of the device of the invention is to make dismantling of the two parts of the tap more difficult and it is remarkable in that the two parts, which fit axially one in the other, are assembled together by radial screws, hidden under a ring which is free to rotate but is immobilized axially, said ring having a hole for access to the heads of said screws.

According to the present invention, there is provided a mixing cock consisting of a body in two parts which fit into each other, assembled by means of ^{first} radial screws, wherein the radial screws are hidden under a ring, which is axially immobilised ^{an} on the outer part of the body, is free to rotate about the axis of the body and has a hole for access to the said screws.

Thus, for dismantling the tap, it is necessary to rotate the above ring so as to bring the hole, by successive rotational movements, opposite the screw heads.

This operation is relatively easy for a technician who knows the device well but it is time-wasting for a person who does not know the structure of the tap.

In addition, the ring occupies substantially the position of the usual assembly nut but rotation of the ring, contrary to that of the nut, has no effect on the tap and this vain manoeuvre is very dissuasive.

The invention will be better understood from the following description with reference to the accompanying drawings given solely by way of indication, in which:

Figure 1 is a sectional view of the lower part of a tap comprising the device of the invention;

Figure 2 is a sectional view through line II-II of Figure 1;

Figure 3 is a sectional view through line III-III of Figure 2;



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Figure 4 is a sectional view through line IV-IV of
Figure 2;

Figure 5 is a partial perspective view showing a

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detail of construction.

Referring to the drawings, it can be seen that the tap body is made from two parts 1 and 2, part 1 forming the base and being fixed to a support (not shown) whereas the other 2, which is engaged axially on part 1, comprises the usual spout, not shown.

In the example chosen, a mixing tap has been shown and this is why in the drawings we can see two water intakes 3 and 4, but the device of the invention may be used in a usual tap comprising only a single water intake.

Part 2 is held on part 1 by a plurality of radial supports 5, hidden under a ring 6.

Ring 6 is held in position axially by shoulders 7 and 8 provided respectively on part 1 and part 2.

The ring 6 may rotate freely about the tap body and it has a hole 9 which, by rotation of said ring, can be brought into coincidence with each of the screw heads 5.

To increase the difficulty and, contrary to what has been shown in the drawings, screws 5 may be spaced apart irregularly.

The efficiency of the device is increased when it is used on a mixer tap, as will be clear hereafter.

The tap shown in the drawings is a mixer tap of the type whose water intake orifices 10 emerge under a glass plate 11 which, by its rotation, reduces the flow section of said orifices, even closes one of them.

In the present state of the technique, the tap body has an aperture out of which extends an operating handle whose rotation in a plane perpendicular to the axis of the tap defines the rotation of glass plate 11.

According to the invention, the shaft 12 driving the glass plate 11 is connected for rotation to a lever 13 which extends through an aperture 14 of part 2 (Figure 3) and is connected to a pusher 15 fixed on ring 6 at a point such that hole 9 is hidden under said pusher.

In one embodiment, pusher 15 has two fingers 16 passing through ring 6 through holes 17 therein (Figure 5)

and engaging in the end of lever 13.

Pusher 15 fits on to a boss 18 on the periphery of ring 6 and is held in position on the latter by a support 19. Preferably, and as shown in Figure 2, the axis of support 19 is disposed obliquely with respect to that of the tap and its head is directed towards part 1.

Thus, the head of the screw 19 is difficult to detect and it can only be operated using an offset wrench, which forms an additional obstacle in dismantling the tap by an ill-disposed and ill-informed person.

Of course, the present invention is not limited to the embodiment described and shown but on the contrary extends to all variants of shapes and sizes.

Thus, again, the shaft 12 driving the glass plate is carried by a removable piece 20, having a skirt 21 engaged in part 1 and held thereon by screws 22 disposed so as to be accessible through the hole 9 in ring 6.

Finally, in the case of a usual non-mixing tap, it may be desirable to prevent ring 6 from rotating. In this case, ring 6 is secured against rotation by a screw screwed into one of the two parts of the tap, the head of the screw being hidden under the constructor's plate fixed to said ring. Naturally, in this case, hole 9 is also hidden under the constructor's plate which is preferably snap-fitted in a housing provided on said ring (this embodiment is not shown).

THE CLAIMS DEFINING THE INVENTION ARE AS FOLLOWS:

1. A mixing cock consisting of a body in two parts which fit into each other axially, assembled by means of 5 first radial screws, wherein the radial screws are hidden under a ring, which is axially immobilised on an outer part of the body, is free to rotate about the axis of the body and has a hole for access to the said screws.
2. The mixing cock according to claim 1 further 10 including a glass plate, the rotation of which controls water flow through said mixing cock and is operable by a push rod, wherein the push rod is removably attached to the ring so as to close the hole of the ring.
3. The mixing cock according to claim 2, wherein the 15 ring has a projection onto which fits the push rod, the push rod being attached to the projection by means of a screw, the axis of said screw being at an angle to the body of the cock, the head of the said screw being directed toward the base of said mixing cock.
- 20 4. The mixing cock according to either of the claims 2 and 3, wherein the push rod has at least one finger extending through the ring and engaging the end of a lever the rotation of which effects the rotation of said glass plate.
- 25 5. The mixing cock according to any one of claims 2 to 4, wherein said glass plate is rotated about a drive shaft which is supported by a removable piece having a skirt which engages in a fixed one of said two parts and is secured to the fixed part by second radial screws.
- 30 6. A mixing cock, substantially as herein described with reference to the accompanying drawings.

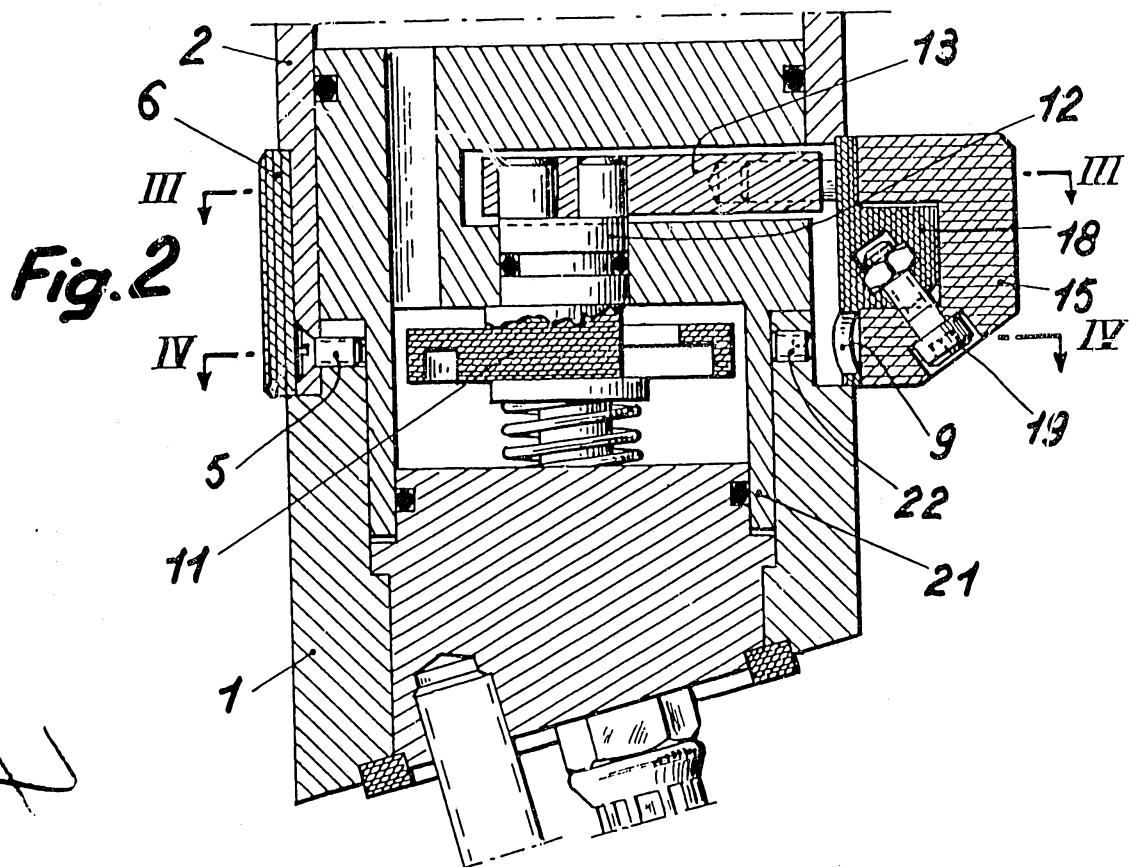
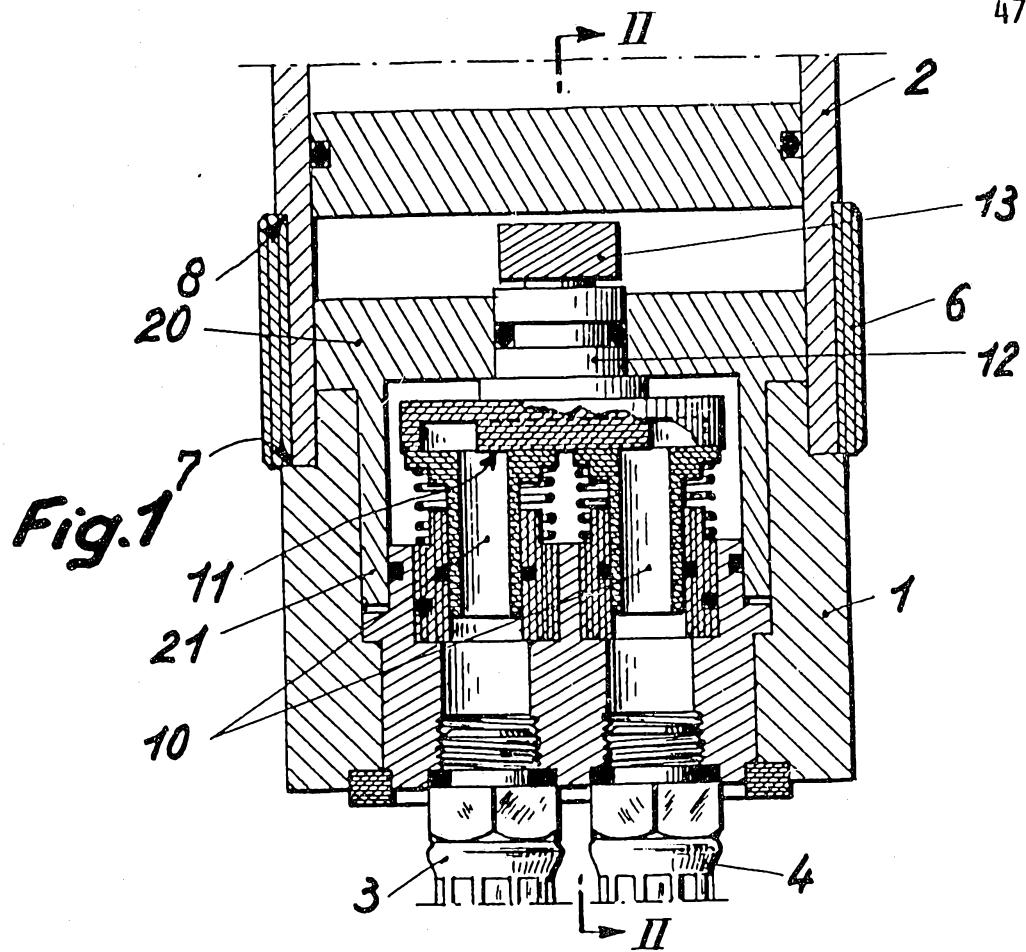
DATED: 16 September 1992

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Fig. 3

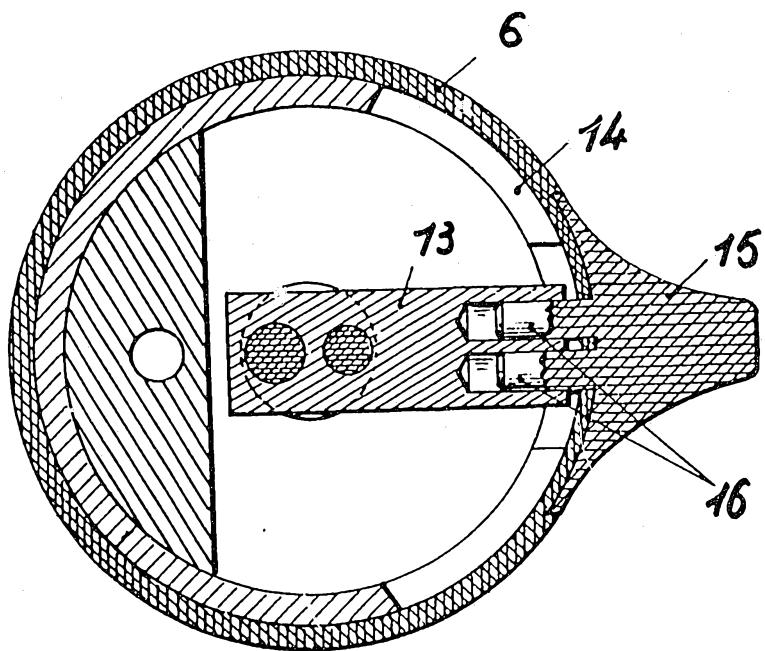


Fig. 4

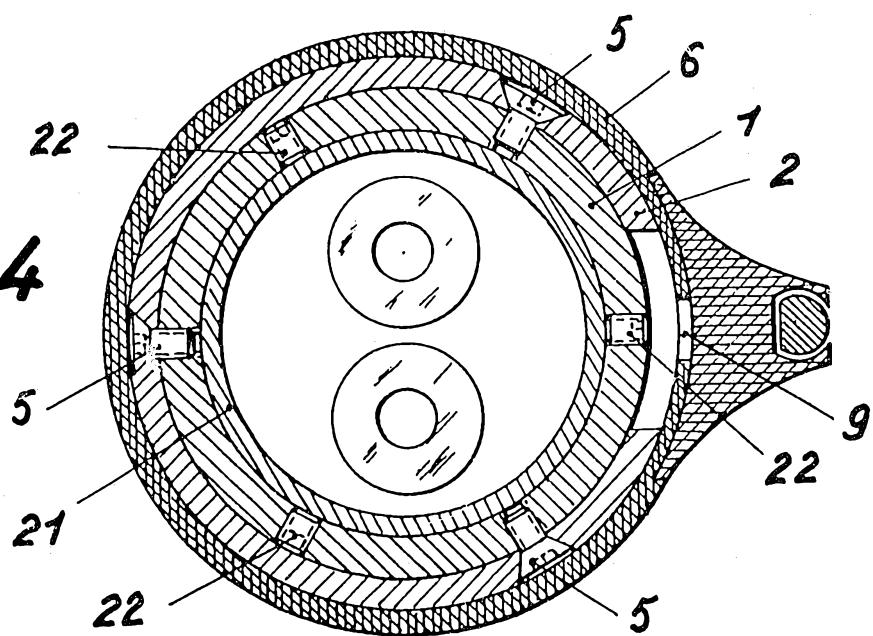


Fig. 5

