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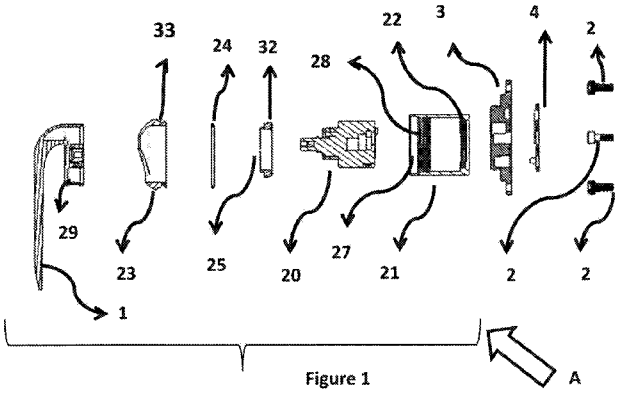

Figure 1

(57) Abstract: The invention relates to a mechanism which provides mounting of surface mounted fixture group, which is going to be mounted on flush mounted fixture group that is mounted on concealed installation, on flush mounted fixture group independently of the location of flush mounted fixture group; in other words, which provides mounting of surface mounted fixture group and the control lever on the flush mounted fixture group in the desired position in a horizontal or vertical manner, independent of the horizontal or vertical connection location of flush mounted fixture group in built-in fixtures; and a fixture comprising said mechanism. With the mechanism developed within the scope of the invention, use of a common part for each surface mounted group is provided, and this provided both ease of manufacture and cost advantage, it is not required to select the surface mounted fixture group having control lever, which may have a different design, before the mounting of the flush mounted fixture group is realized by the contractor, plumber, or related people. Moreover, thanks to the mechanism according to the invention, due to reasons such as personal habits and personal needs, the users of the fixture can change the surface mounted fixture group including the control lever with the one which has different industrial design in any intended position as (R), (L), (B), (T).

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A MECHANISM WHICH PROVIDES PLACING ALL TYPES OF SURFACE MOUNTED GROUPS OVER ALL TYPES OF FLUSH MOUNTED GROUPS IN BUILT-IN FIXTURES AND A FIXTURE COMPRISING SAID MECHANISM

DESCRIPTION

Subject of the Invention

The invention relates to a mechanism which provides mounting of surface mounted fixture group, which is going to be mounted on flush mounted fixture group that is mounted on concealed installation, on flush mounted fixture group independently of the location of flush mounted fixture group; in other words, which provides mounting of surface mounted fixture group and the control lever on the flush mounted fixture group in the desired position in a horizontal or vertical manner, independent of the horizontal or vertical connection location of flush mounted fixture group in built-in fixtures; and a fixture comprising said mechanism.

Present State of the Art

Today, in social and/or personal usage areas, built-in fixtures, in other words, fixtures having a part or all of the systems/mechanisms required for the operation of the fixture under the flush, can be used.

Built-in fixtures generally consist of two sections. In some built-in fixtures, the flush mounted group and the surface group can also be one piece. In two-piece fixtures, the first section is located beneath the plaster, tile or wall tile. In other words, it is the section which cannot be seen by the user from the outside while using said fixture. Before starting the mounting of said fixture, related space for the section that will be located beneath the plaster is formed. First, said flush mounted group is mounted on the concealed group installation. After mounting, the section except the space on which the flush mounted group will be connected with surface mounted group is closed with plaster, wall tile or tile and said flush mounted fixture group is completely covered. In the known method, it is suggested that the flush mounted groups are connected with the surface mounted groups they are compatible with. Otherwise, an incompatibility occurs between the fixture group residing under the plaster and the fixture of the surface mounted group to be connected therewith, and this causes water leaks from the installation. In the present state of the art, each flush mounted fixture

group has a compatible surface mounted fixture group. Moreover, in order to mount the surface mounted group to the same flush mounted group in different positions, a different surface mounted group must be selected for each position, wherein said positions can be defined as the right, left, bottom and top positions of the surface mounted fixture group and the control lever during mounting. Moreover, a separate product is required for each of the different industrial and functional designs in addition to the locations of the control lever which allows opening and closing and the surface mounted group. The design type and location of the surface mounted fixture group must be decided before starting the mounting of flush mounted fixture group. It is not possible to change the surface mounted group selection after the mounting of said flush mounted group is completed. Moreover, surface mounted group is manufactured specific to each flush mounted group, in other words, the number of common parts for different types of products is very few.

The invention according to the application eliminates the incompatibility of flush mounted group and surface mounted group in fixtures such that it will overcome all of these problems; moreover, it is not affected by the changes on the selection of the surface mounted group that may occur later, and provides a flexible area of use against factors such as the location during mounting and design differences of the control lever which allows opening and closing and the surface mounted group.

Object of the Invention

The object of the invention is to develop a system which allows mounting of surface mounted group on any flush mounted group independently of the position of control lever and surface mounted group during mounting and design thereof by eliminating the incompatibility problem of flush mounted and surface mounted fixture group in built-in fixtures.

Part References

A: Surface mounted fixture group

C: Flush mounted fixture group

1. Control lever

2. Fixing member

3. Connection member

4. Sealing element

5. Channel

6. Fixing pin

7. Flush mounted fixture body

8. Pin housings

9. Top water inlet

10. Bottom water inlet

11. Water outlet

12. Top water outlet space

13. Bottom water outlet space

14. Space on the mounting surface of the flush mounted fixture body

14a: Space on the sealing element

14b: Space on the connection member

15. Connection member threaded surface

16. Housing

16a. Fixing member housings

17. Channel on the connection member

18. Sealing element fixing protrusion

19. Mounting surface

20. Mechanism which provides mixing of hot and cold water

21. Surface mounted group body

22. Surface mounted group body threaded inner surface

23. Cover of mechanism which provides mixing of hot and cold water

24. Connection auxiliary part

25. Fixing member of mechanism which provides mixing of hot and cold water

26. Threaded surface from which the control lever fixing member is passed

27. Connection point on the surface mounted group body

28. Female threaded section

29. Passage space

30, 31. Water passage spaces on the connection member

32. Male threaded section of the fixing member of mechanism which provides mixing of hot and cold water

33. Housing on the cover of mechanism which provides mixing of hot and cold water

R. Right section

L. Left section

T. Top section

B. Bottom section

Description of the Figures

Figure 1: View of the mechanism and surface mounted fixture group parts according to the application

Figure 2: Cross-sectional view of the mounted state of the surface mounted fixture group on which the mechanism according to the application is mounted

Figure 3: Side view of the mechanism and surface mounted fixture group according to the application

Figure 4: Bottom view of the surface mounted fixture group which comprises the mechanism according to the application in closed state

Figure 5a: Perspective view of the sealing element with special form comprised in the mechanism according to the application

Figure 5b: View of the surface of the sealing element with special form comprised in the mechanism according to the application by which it is mounted on the connection member

Figure 5c: Side view of the sealing element with special form comprised in the mechanism according to the application

Figure 5d: Perspective view of the surface of the sealing element with special form comprised in the mechanism according to the application by which it is mounted on the connection member

Figure 6a: Side perspective view of the surface of the connection member with special form comprised in the mechanism according to the application which is mounted on the surface mounted fixture body

Figure 6b: View of the surface of the connection member with special form comprised in the mechanism according to the application on which the sealing element is to be mounted

Figure 6c: Side view of the connection member with special form comprised in the mechanism according to the application

Figure 6d: View of the surface of the connection member with special form comprised in the mechanism according to the application on which the sealing element is mounted

Figure 6e: View of the surface of the connection member with special form comprised in the mechanism according to the application which is mounted on the surface mounted fixture body

Figure 7: The flush mounted group comprised in the fixture comprising the mechanism according to the application

Figure 8: Front view of the flush mounted group comprised in the fixture comprising the mechanism according to the application

Figure 9: Front view of the flush mounted fixture group and surface mounted fixture group comprised in the fixture comprising the mechanism according to the application as mounted together

Figure 10: Perspective view of the flush mounted fixture group and surface mounted fixture group comprised in the fixture comprising the mechanism according to the application as combined while the surface mounted group and control lever are in the direction B.

Figure 11: Cross-sectional view of the sealing area in the view of the flush mounted and surface mounted fixture group comprised in the fixture comprising the mechanism according to the application as combined while the surface mounted group and control lever are in the direction B.

Figure 12: View of the flush mounted fixture group and surface mounted fixture group comprised in the fixture comprising the mechanism according to the application as combined while the surface mounted group and control lever are in the direction T.

Figure 13: Cross-sectional view of the sealing area in the view of the flush mounted group and surface mounted fixture group comprised in the fixture comprising the mechanism according to the application as combined while the surface mounted group and control lever are in the direction T.

Figure 14: View of the flush mounted fixture group and surface mounted fixture group comprised in the fixture comprising the mechanism according to the application as combined while the surface mounted group and control lever are in the direction L.

Figure 15: Cross-sectional view of the sealing area in the view of the flush mounted group and surface mounted fixture group comprised in the fixture comprising the mechanism according to the application as combined while the surface mounted group and control lever are in the direction L.

Figure 16: View of the flush mounted fixture group and surface mounted fixture group comprised in the fixture comprising the mechanism according to the application as combined while the surface mounted group and control lever are in the direction R.

Figure 17: Cross-sectional view of the sealing area in the view of the flush mounted group and surface mounted fixture group comprised in the fixture comprising the mechanism according to the application as combined while the surface mounted group and control lever are in the direction R.

Detailed Description of the Invention

The invention relates to a mechanism which provides mounting of surface mounted fixture group, which is going to be mounted on flush mounted fixture group that is mounted on concealed installation, on flush mounted fixture group independently of the location of flush mounted fixture group; in other words, which provides mounting of surface mounted fixture group and the control lever on the flush mounted fixture group in the desired position in a horizontal or vertical manner, independent of the horizontal or vertical connection location of flush mounted fixture group in built-in fixtures; and a fixture comprising said mechanism.

The mechanism according to the application provides positioning of the surface mounted fixture group (A) on flush mounted fixture group (C) in any desired direction, in other words, in a way that during their mounting on the flush mounted group, the control lever (1), which provides opening-closing of the fixture, and the surface mounted fixture group (A) are positioned on the flush mounted fixture group (C) as directed towards right section (R) or left section (L) or top section (T) or bottom section (B).

Flush mounted fixture group (C) comprises at least one flush mounted fixture body (7). Surface mounted fixture group (A) comprises at least one control lever (1) which provides opening-closing of the fixture, at least one mechanism (20) which provides mixing of hot and cold water, at least one cover (23) of mechanism which provides mixing of hot and cold water, and at least one surface mounted group body (21). Surface mounted fixture group (A) is mounted on said flush mounted fixture body (7) in flush mounted fixture group (C).

The mechanism according to the invention comprises at least one sealing element (4) with specific form which provides positioning of the surface mounted fixture group (A) head

towards any one of the right (R), left (L) bottom (B) or top (T) directions during mounting onto the flush mounted fixture body (7); at least one connection member (3) on which said sealing element (4) is mounted; and at least one fixing member (2) which provides mounting of connection member on the flush mounted fixture body (7).

There is at least one mounting surface (19) on the flush mounted fixture body (7) on which the connection member (3), and thus the surface mounted group body (21) are mounted. Said mounting surface (19) comprises fixing member housings (16a) on which the connection member (3) will be fixed. On the mounting surface (19), the flush mounted fixture body (7) comprises at least one top water outlet space (12), at least one bottom water outlet space (13), and at least one space (14) through which water passage from the surface mounted fixture group to the flush mounted fixture group is provided. One of said top water outlet space (12) and bottom water outlet space (13) is positioned as hot water outlet and the other is positioned as cold water outlet. Flush mounted fixture body (7) comprises at least one top water inlet (9) and at least one bottom water inlet (10), one of which is for hot water and the other for cold water. At least one water outlet (11), through which water is transferred to the user, is positioned on the flush mounted fixture body (7).

In the surface mounted fixture group (A), said mechanism (20) which provides mixing of hot and cold water is mounted on the surface mounted group body (21) by means of at least one fixing member (25) of mechanism which provides mixing of hot and cold water. The fixing member (25) of mechanism which provides mixing of hot and cold water comprises at least one male threaded section (32) thereon, and said male threaded section is fixed on at least one female threaded section (28) positioned on surface mounted group body. Control lever (1) is fixed by means of at least one fixing member passing through at least one passage space (29) on control lever and which will be positioned inside at least one threaded surface (26) through which the control lever fixing member is passed. Preferably, said control lever fixing member is stay bolt. Cover (23) of mechanism which provides mixing of hot and cold water is positioned on at least one connection point (27) on the surface mounted group body (21) in a way that at least one connection auxiliary part (24) is fitted to at least one housing (33) thereon. Connection auxiliary part (24) is an elastic part and it is compressed while being fitted into the surface mounted group body (21) and released afterwards. It is

also possible to fix the cover (23) of mechanism which provides mixing of hot and cold water on the surface mounted group body (21) by screwing.

Sealing element (4) comprises at least one fixing pin (6) which provides fixing thereof on the connection member (3). The fixing pins (6) located on the sealing element (4) are fixed on at least one pin housing (8) positioned on the connection member (3). The sealing element (4) comprises at least one fixing protrusion (18) positioned in at least one channel (17) on the connection member (3). Both the sealing element (4) and the connection member (3) comprise channels (5) with special form thereon. Sealing element (4) comprises thereon at least one space (14a) which allows water passage.

Connection member (3) comprises another space (14b) which is located in the same direction with said space (14a) on the sealing element (4). At the same time, on the surface it is mounted on surface mounted group body (21), the connection member (3) comprises water passage spaces (30,31) which provide the passage of hot and cold water entering from the flush mounted fixture group (C) to the surface mounted fixture group (A), and one of which is for hot water and the other for cold water. Connection member (3) comprises housings (16) thereon, in which the fixing members (2), which will provide the mounting thereof on the mounting surface on the flush mounted fixture body, will be positioned. Additionally, the connection member (3) comprises at least one pin housing (8) in which the fixing pins (6) located on the sealing element will be positioned, and at least one channel (17) in which the fixing protrusion (18) located on the sealing element (4) will be positioned.

Connection member (3) is mounted on the mounting surface (19) on the flush mounted fixture body (7) by means of at least one fixing member (2). Fixing of the connection member (3) on the mounting surface (19) is achieved by positioning the fixing members (2), which provide mounting thereof on the flush mounted fixture body (7), on the housings (16) on the connection member and the fixing member housings (16a) on the mounting surface, which are in the same direction and which correspond to said housings (16). In the preferred use, said fixing members (2) are screws.

There is at least one threaded surface (15) on the surface by which the connection member (3) is mounted on the fixture surface mounted group body (21). And the connection member (3) is mounted on at least one other threaded inner surface (22) located on the surface

mounted group body (21) by screwing. In other words, the connection member (3) is mounted on the surface mounted group body (21) by fixing together the threaded surfaces.

When the sealing element (4) is positioned on the connection member (3), the fixing pins (6) thereon are positioned on the pin housings (8) on the connection member (3), and the fixing protrusion (18) on the sealing element is fixed on the channel (17) on the connection member (3). Sealing element (4) is fixed between the connection member (3) and the flush mounted fixture body (7).

In the flush mounted fixture group (C), the flush mounted fixture body (7) comprises top water inlet (9) and bottom water inlet (10), one of which provides hot water inlet and the other cold water inlet to the flush mounted fixture group. Top water outlet space (12) and bottom water outlet space (13), one for hot water and the other for cold water, are positioned on the flush mounted fixture body mounting surface (19). Likewise, there are water passage spaces (30,31) on the connection member (3), one of which is for hot water passage and the other for cold water passage. The hot and cold water received from the installation enter from the top water inlet (9) and bottom water inlet (10), pass through the top water outlet space (12) and bottom water outlet space (13), and passing through the spaces (30,31) on the connection member (3) for passage of hot and cold water to the surface mounted group, reach the mechanism (20) which provides mixing of hot and cold water in the surface mounted fixture group. If the top water inlet (9) is designed for hot water inlet in the connection type, then the top water outlet space (12) will be used for hot water outlet; and if the bottom water inlet (10) is designed for cold water inlet, then the bottom water outlet space (13) will be used for cold water outlet. It is also possible the other way around, i.e. the top water inlet (9) can be used as cold water inlet and top water outlet space (12) can be used as cold water outlet; and bottom water inlet (10) can be used for hot water inlet and bottom water outlet space (13) can be used for hot water outlet. Therefore, hot water and cold water will enter the flush mounted group, one through the top water inlet (9) and the other through bottom water inlet (10); reach the water passage spaces (30, 31) on the connection member, one passing through the top water outlet space (12) and the other through the bottom water outlet space (13); and reach the surface mounted fixture group, passing through the water passage spaces (30, 31) on the connection member, one passing through one space and the other passing through the other space. After achieving

the mixing of the hot and cold water that is received into the mechanism (20) which provides mixing of hot and cold water in the surface mounted fixture group, the mixed water passes both through the space (14b) on the connection member and the space (14a) on the sealing element and reaches the water outlet (11) via the space (14) on the mounting surface of the flush mounted fixture body and to the user via this section. When only hot water is intended to be used, hot water entering through one of the top or bottom water inlets (9, 10) passes through one of the top or bottom water outlet spaces (12,13) and reach the surface mounted fixture group by passing through water passage spaces (30, 31) on the connection member (3). From this section, water passes through the space (14b) on the connection member, through the space (14a) on the sealing element, and through the space (14) on the mounting surface of the flush mounted fixture body and reaches the water outlet (11), and to the user therefrom. In the same way, when cold water is intended to be used, cold water advances through the same path and finally reaches the water outlet (11), and to the user therefrom. Mixed water, hot water or cold water received from the water outlet (11) may be connected directly to a water outlet end or connected to hand shower, head shower or different water outlets in shower or bathroom fixtures. In addition to transferring the water in the installation to the user safely, the flush mounted fixture body (7) provides fixing of the surface mounted fixture group (A).

The channels (5) located on the sealing element (4) and connection member (3) have a specific curved form. Channels (5) allow the control lever (1) and the surface mounted fixture group (A) to be positioned in any one of the (R), (L), (B), (T) positions during mounting. The special form of the channels (5) is intended for comprising/containing top water outlet space (12) and bottom water outlet space (13) within its boundaries, and to allow passage of water received from these spaces to the surface mounted group. Therefore, when the control lever is opened, water entering through top water inlet (9) and bottom water inlet (10) passes through the top water outlet space (12) and bottom water outlet space (13) by means of the channels (5) and reaches the surface mounted group, thanks to said form of the channels (5), regardless of the (R), (L), (B), or (T) position in which the surface mounted group (A) and the control lever (1) are located. As can be seen in Figure 11, Figure 13, Figure 15, and Figure 17, in any case, regardless of the (R), (L), (B), or (T) position in which the surface mounted group (A) and the control lever (1) are located,

channels (5) take the top water outlet space (12) and bottom water outlet space (13) within their boundary, in other words, a section of the channels stays in alignment with outlet spaces and allows water passage.

By means of the specially formed channels (5) located on the connection member (3) and the sealing element (4), regardless of the position in which the surface mounted fixture group (A) is mounted on the flush mounted fixture group (C), water from the flush mounted fixture body (7) flows to the surface mounted fixture group (A) and then flows to the hand shower, head shower, or any external source intended by the user accurately, i.e. without any leaks into

The surface mounted fixture group (A) comprises a connection member (3) for control levers (1) having different design. The connection member (3) can either be mounted on the surface mounted group body (21) by methods such as screwing, adhesion, fitting, or be one piece with this section. In the current application, the connection member (3) is mounted on the surface mounted group body (21) by screwing method by means of threaded surfaces. Connection of surface mounted fixture group on flush mounted fixture body (7) can be realized with one or all of the known methods such as screwing, fitting, clamping.

With the mechanism developed within the scope of the invention, use of a common part for each surface mounted group is provided, and this provided both ease of manufacture and cost advantage. It is not required to select the surface mounted fixture group having control lever, which may have a different design, before the mounting of the flush mounted fixture group is realized by the contractor, plumber, or related people. Moreover, thanks to the mechanism according to the invention, due to reasons such as personal habits and personal needs, the users of the fixture can change the surface mounted fixture group including the control lever with the one which has different industrial design in any intended position as (R), (L), (B), (T).

CLAIMS

1. A mechanism developed in order to be used in fixtures comprising at least one surface mounted fixture group (A) and at least one flush mounted fixture group (C) and to be used in connection of said surface mounted fixture group (A) to said flush mounted fixture group (C) in built-in, characterized in comprising;
    - at least one connection member (3) to be positioned between the flush mounted fixture group (C) and the surface mounted fixture group (A) on at least one flush mounted fixture body (7) on flush mounted fixture group (C) and on at least one surface mounted group body (21) on surface mounted fixture group (A), and
    - at least one sealing element (4) positioned on connection member (3).

2. The mechanism according to Claim 1, characterized in comprising at least one fixing member (2) which provides mounting of the connection member (3) on the flush mounted fixture body (7).

3. The mechanism according to Claim 1, characterized in that the sealing element (4) is positioned between the connection member (3) and the flush mounted fixture body (7).

4. The mechanism according to Claim 2, characterized in that said connection member (3) comprises at least one housing (16) in which said fixing members (2) are to be located.

5. The mechanism according to Claim 1, characterized in comprising channels (5) having curved form located on said sealing element (4) and connection member (3).

6. The mechanism according to Claim 1, characterized in that said sealing element (4) comprises at least one fixing pin (6) which is located thereon and which provides fixing the sealing element onto the connection member (3).

7. The mechanism according to Claim 6, characterized in that connection member (3) comprises at least one pin housing (8) in which the fixing pins (6) located on the sealing element (4) are positioned.

8. The mechanism according to Claim 1, characterized in that the connection member comprises at least one threaded surface (15) which provides the connection of the connection member (3) to the surface mounted fixture group, i.e. provides mounting the connection member onto the surface mounted group body (21).

9. The mechanism according to Claim 1, characterized in that the connection member (3) comprises water passage spaces (30,31) which provide the passage of hot and cold water entering from the flush mounted fixture group (C) to the surface mounted fixture group (A), and one of which is for hot water and the other for cold water.

10. The mechanism according to Claim 1, characterized in that the sealing element (4) comprises at least one fixing protrusion (18) thereon.

11. The mechanism according to Claim 10, characterized in that the connection member (3) comprises at least one channel (17) on which the fixing protrusion (18) is positioned.

12. The mechanism according to Claim 1, characterized in that the sealing element (4) comprises at least one water passage space (14a) thereon.

13. The mechanism according to Claim 1, characterized in that the connection member (3) comprises at least one water passage space (14b) thereon.

14. The mechanism according to Claim 2, characterized in that said fixing members (2) are screws.

15. A built-in fixture comprising the mechanism according to any one of the previous claims.

16. A fixture according to claim 15 characterized in comprising a surface mounted fixture group (A) comprising;

- at least one control lever (1),
- at least one mechanism (20) which provides mixing of hot and cold water,
- at least one cover (23) of mechanism which provides mixing of hot and cold water, and
- said surface mounted group body (21);

and a flush mounted fixture group (C) comprising said flush mounted fixture body (7).

17. The fixture according to Claim 16, characterized in that the control lever (1) is fixed by means of a fixing member which passes through at least one passage space (29) located on control lever and which is positioned inside a threaded surface (26).

18. The fixture according to Claim 17, characterized in that the control lever fixing member is stay bolt.

19. The fixture according to Claim 16, characterized in that the cover (23) of mechanism which provides mixing of hot and cold water is positioned on at least one connection point (27) on the surface mounted group body (21) in such a way that at least one connection auxiliary part (24) is fitted to at least one housing (33) on the cover.

20. The fixture according to Claim 16, characterized in that the mechanism (20) which provides mixing of hot and cold water is fixed on the surface mounted group body (21) by means of at least one fixing member (25).

21. The fixture according to Claim 20, characterized in that the fixing member (25) of mechanism which provides mixing of hot and cold water comprises male threaded section (32) with male threads which provide fixing the fixing member (25) onto the surface mounted group body (21).

22. The fixture according to Claim 21, characterized in that the surface mounted group body (21) comprises female threaded section (28) corresponding to the male threaded section (32) on the fixing member (25) of mechanism which provides mixing of hot and cold water.

23. The fixture according to Claim 16, characterized in that said fixture body (7) comprises at least one mounting surface (19) on which the connection member (3) will be positioned.

24. The fixture according to Claim 23, characterized in that said mounting surface (19) comprises fixing member housings (16a) which correspond to the housings (16) positioned on the connection member (3) and in which the fixing members (2) are positioned.

25. The fixture according to Claim 16, characterized in that said surface mounted group body (21) comprises at least one threaded inner surface (22) which corresponds to the threaded surface (15) on the connection member and on which the connection member (3) is mounted.

26. The fixture according to Claim 23, characterized in that said mounting surface (19) comprises thereon at least one space (14) for water passage.

27. The fixture according to Claim 23, characterized in that said mounting surface (19) comprises top water outlet space (12) and bottom water outlet space (13), one for hot water and the other for cold water.

28. The fixture according to Claim 16, characterized in that the flush mounted fixture body (7) comprises at least one top water inlet (9) and at least one bottom water inlet (10), one of which is for hot water and the other for cold water.

29. The fixture according to Claim 16, characterized in that flush mounted fixture body (7) comprises at least one water outlet (11) through which water is transferred to the user.

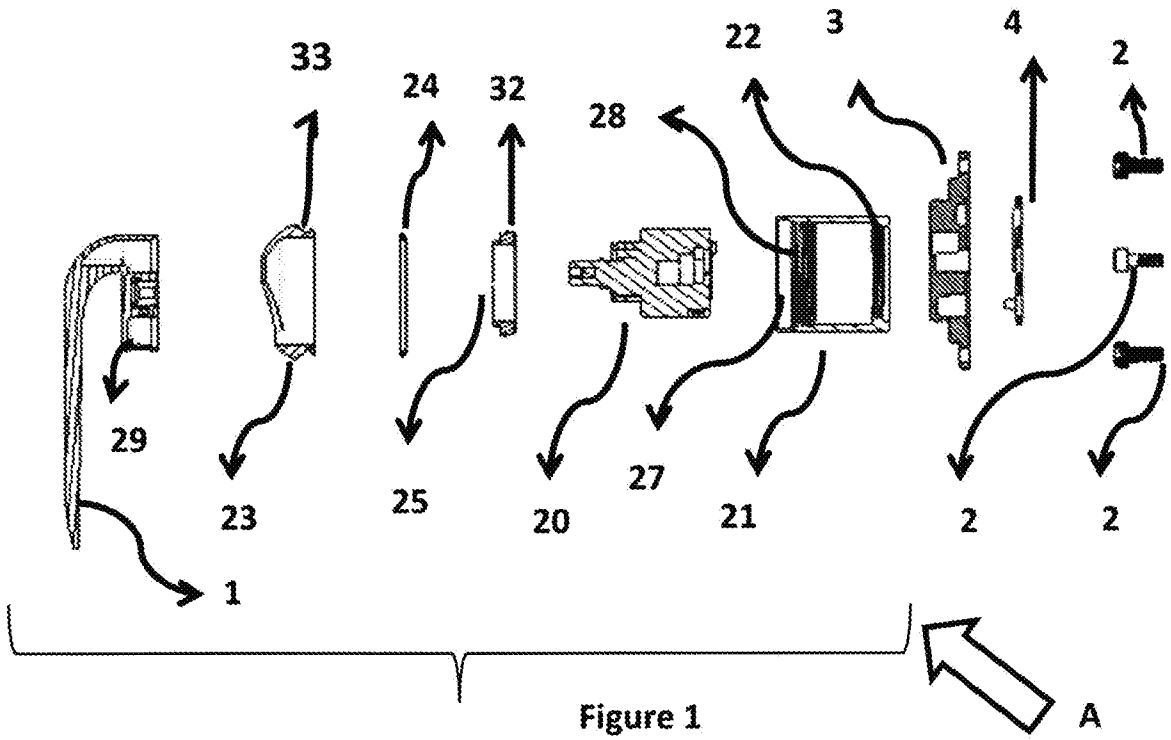


Figure 1

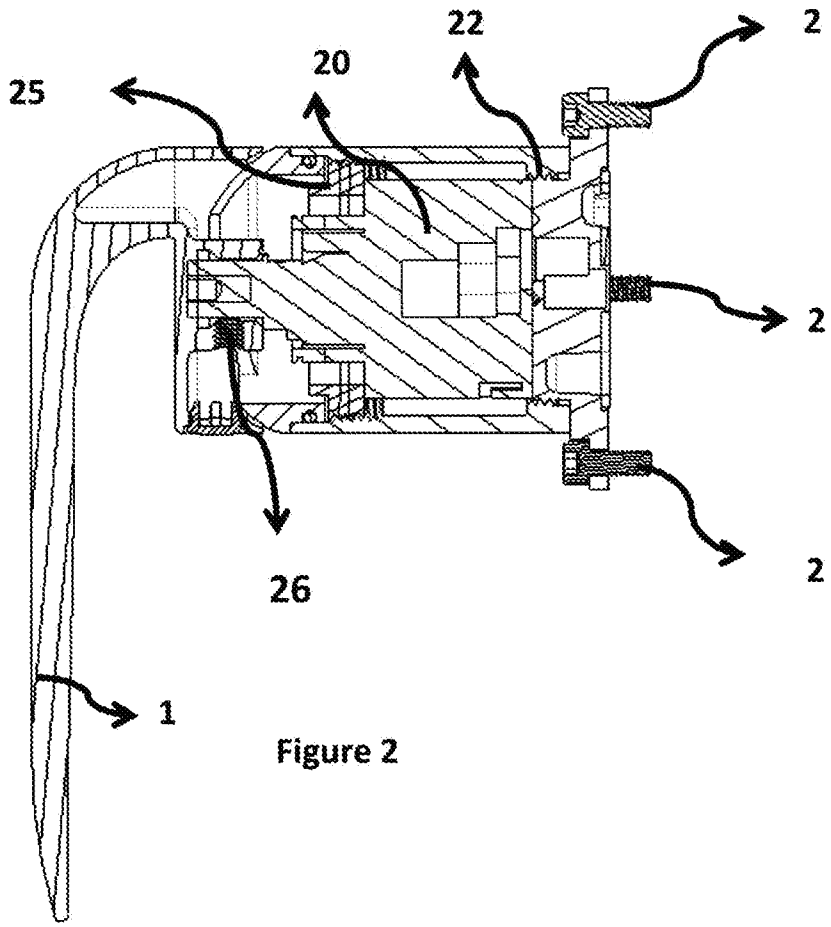


Figure 2

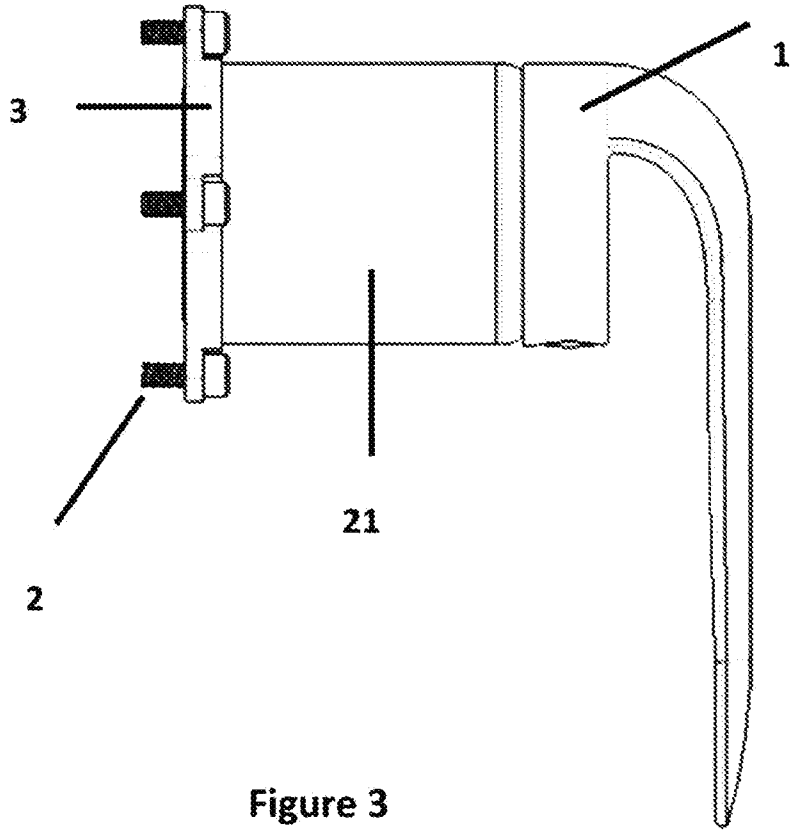
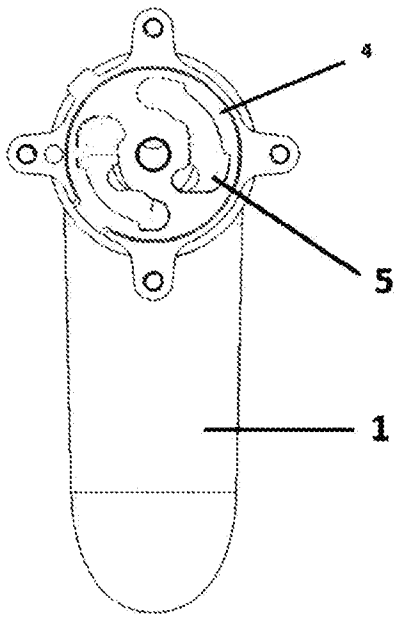


Figure 3



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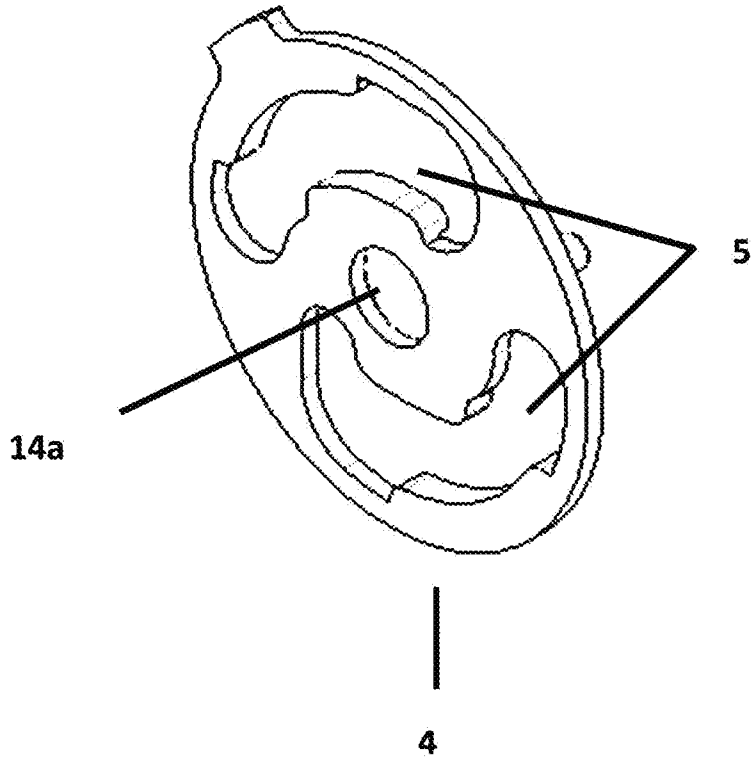


Figure 5a

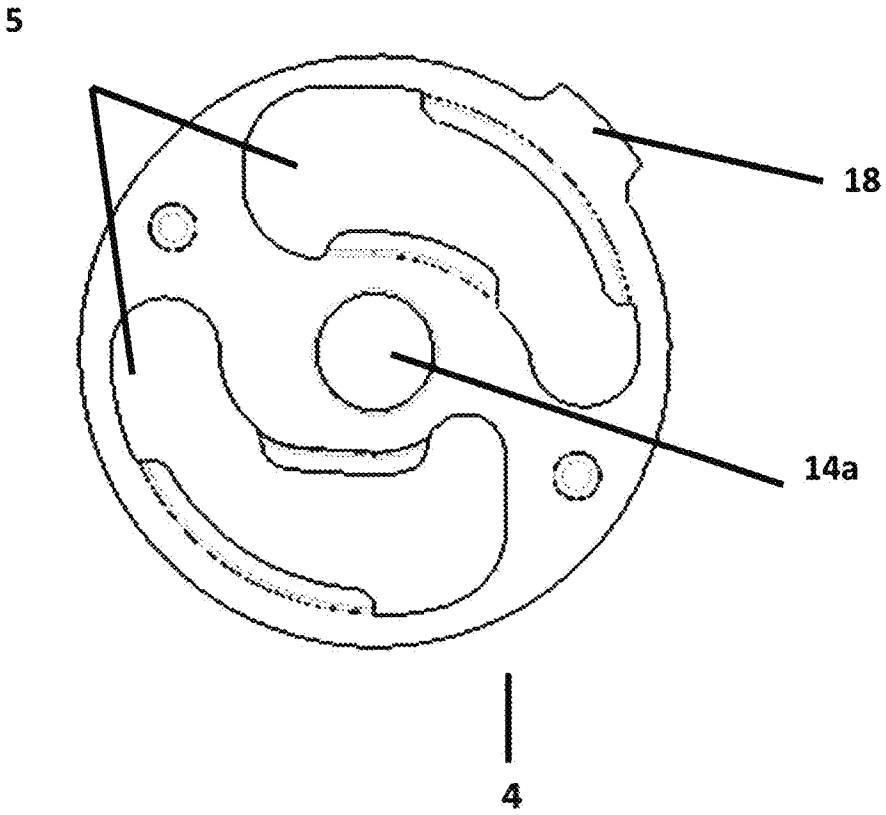


Figure 5b

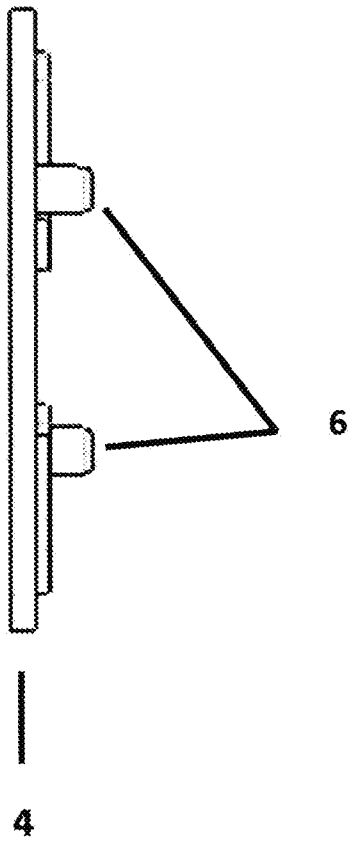


Figure 5c

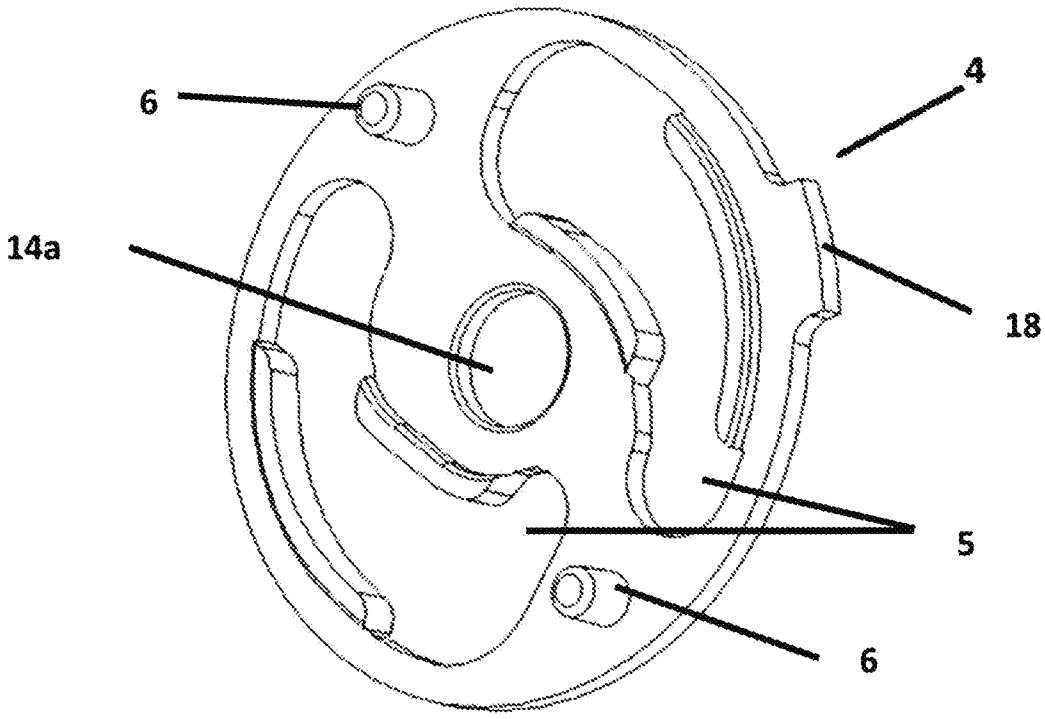


Figure 5d

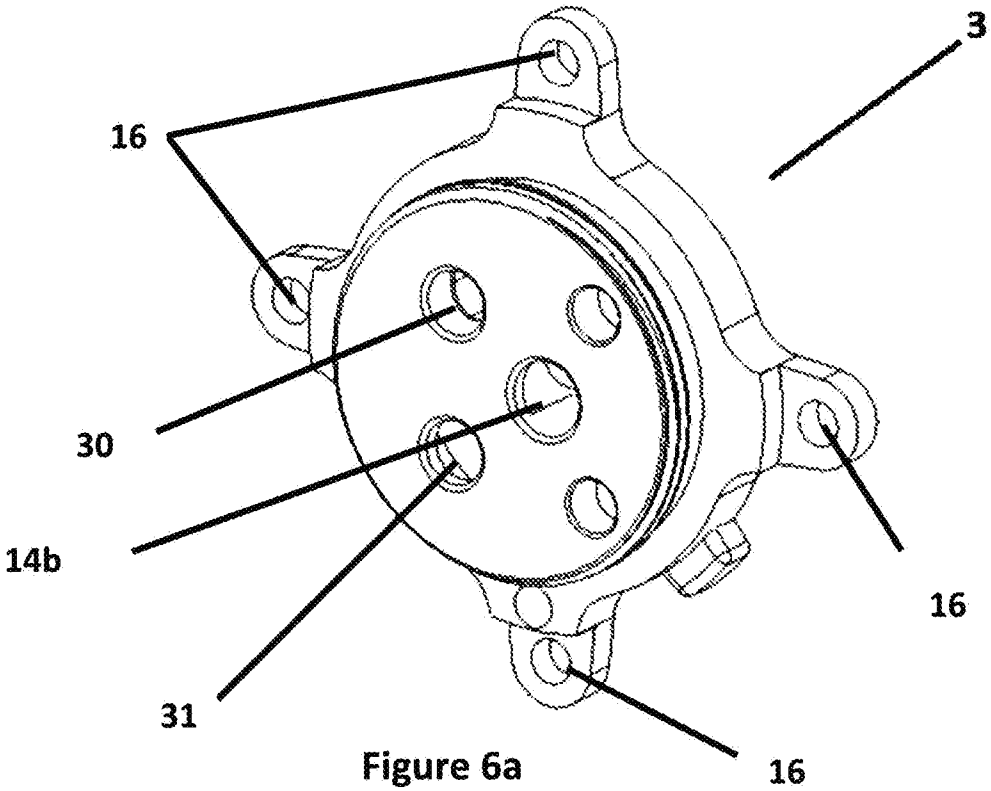


Figure 6a

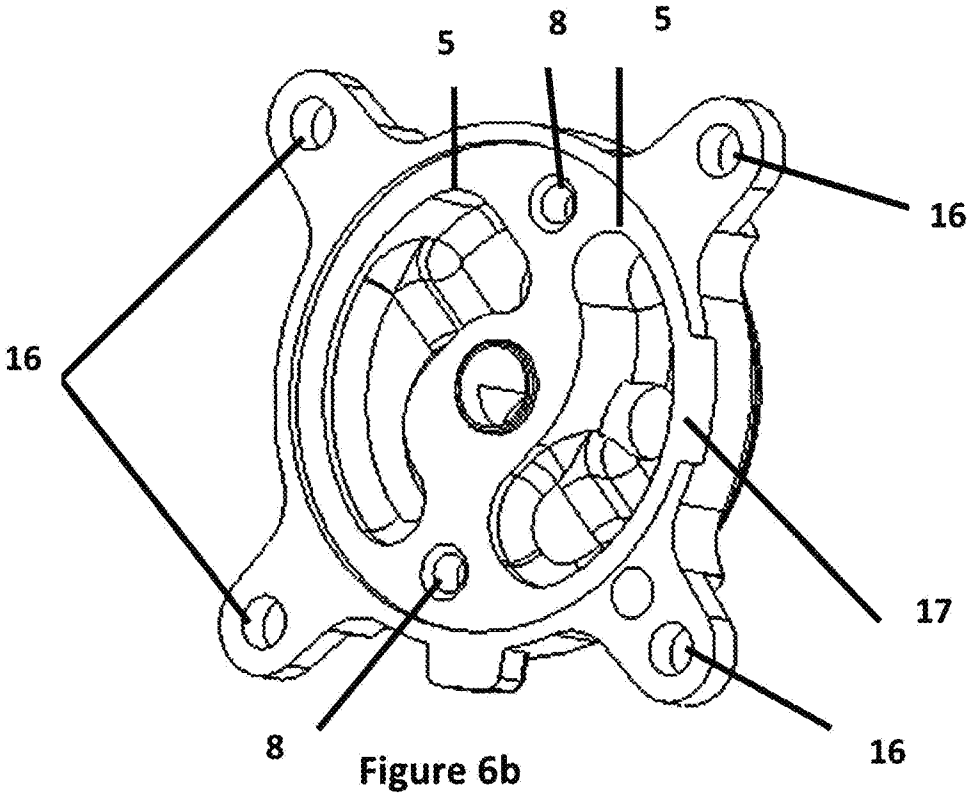


Figure 6b

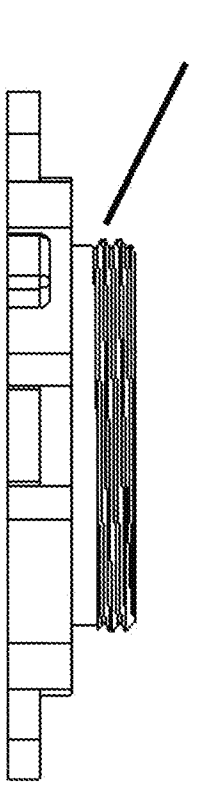


Figure 6c

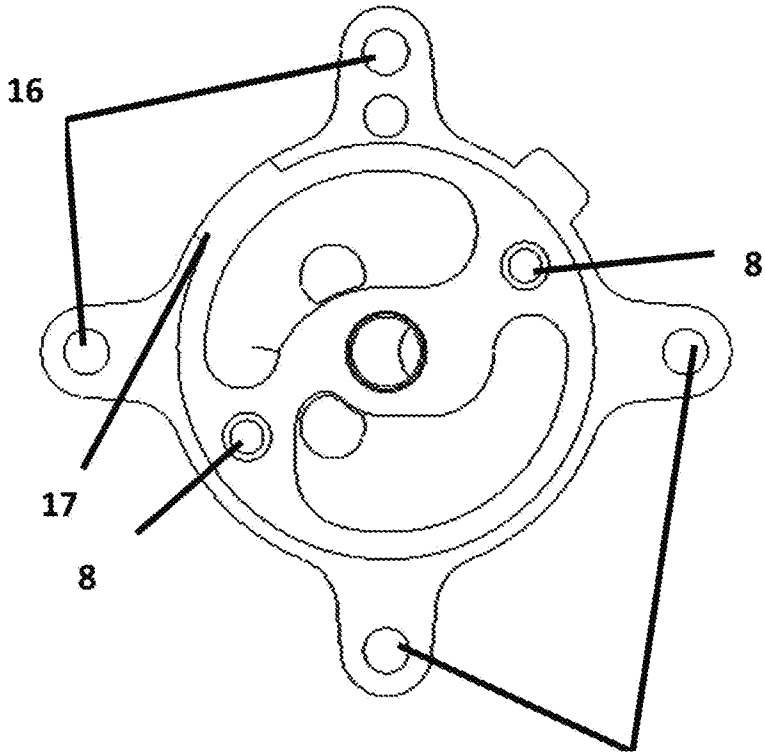


Figure 6d

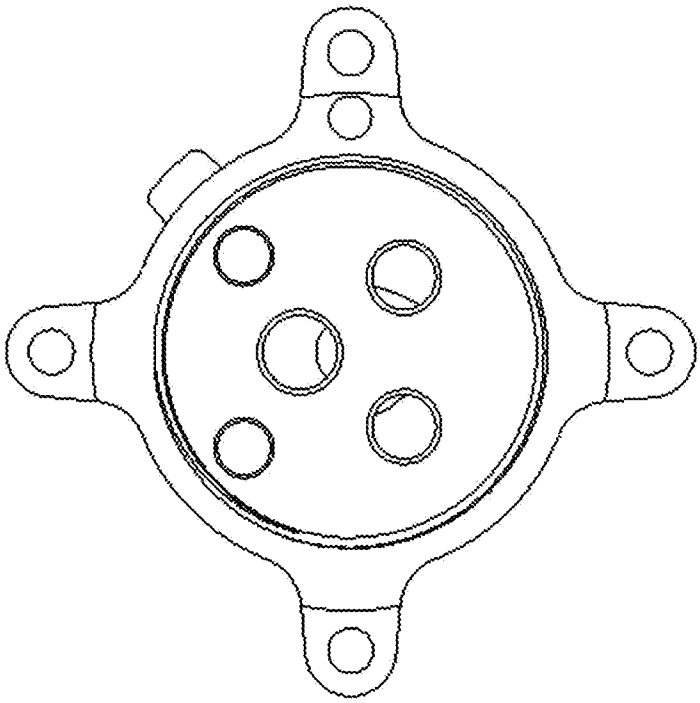
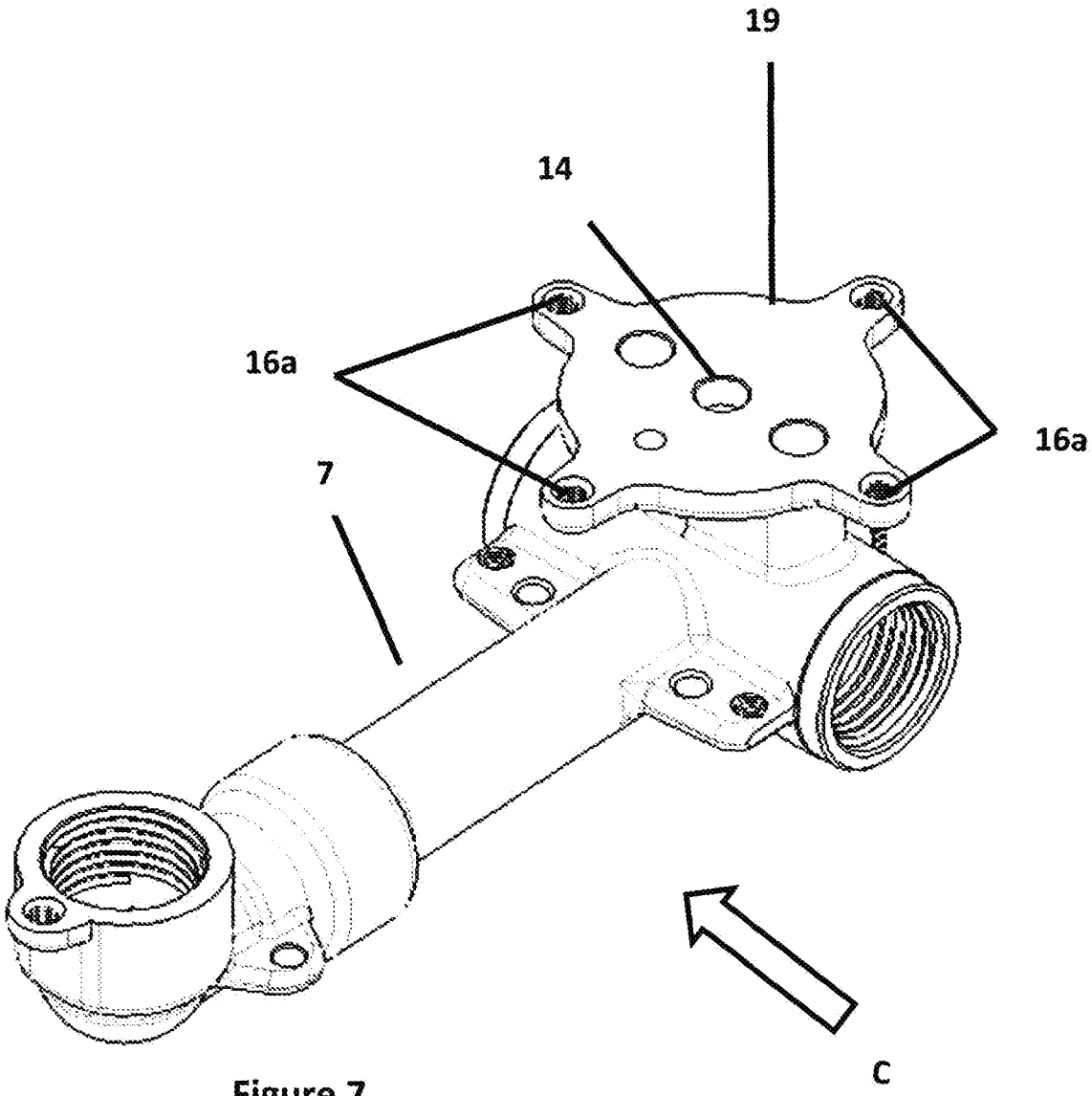


Figure 6e



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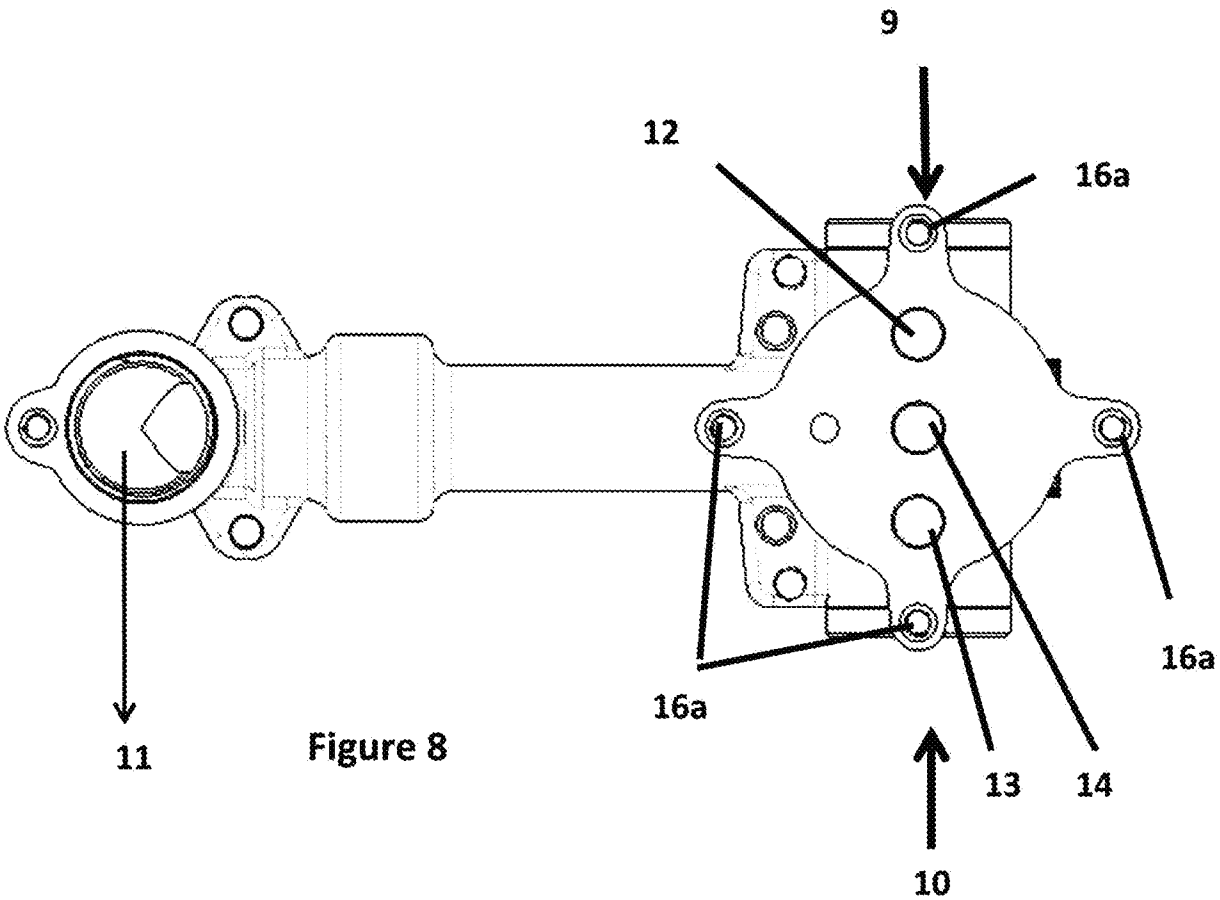

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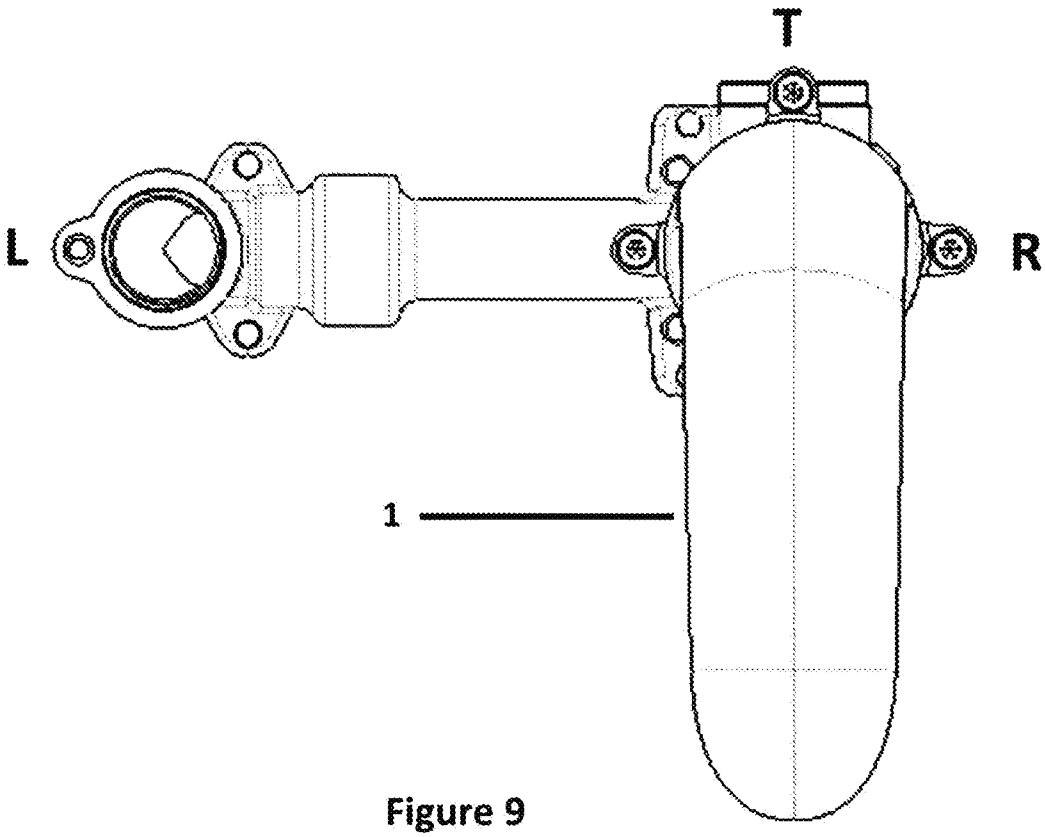

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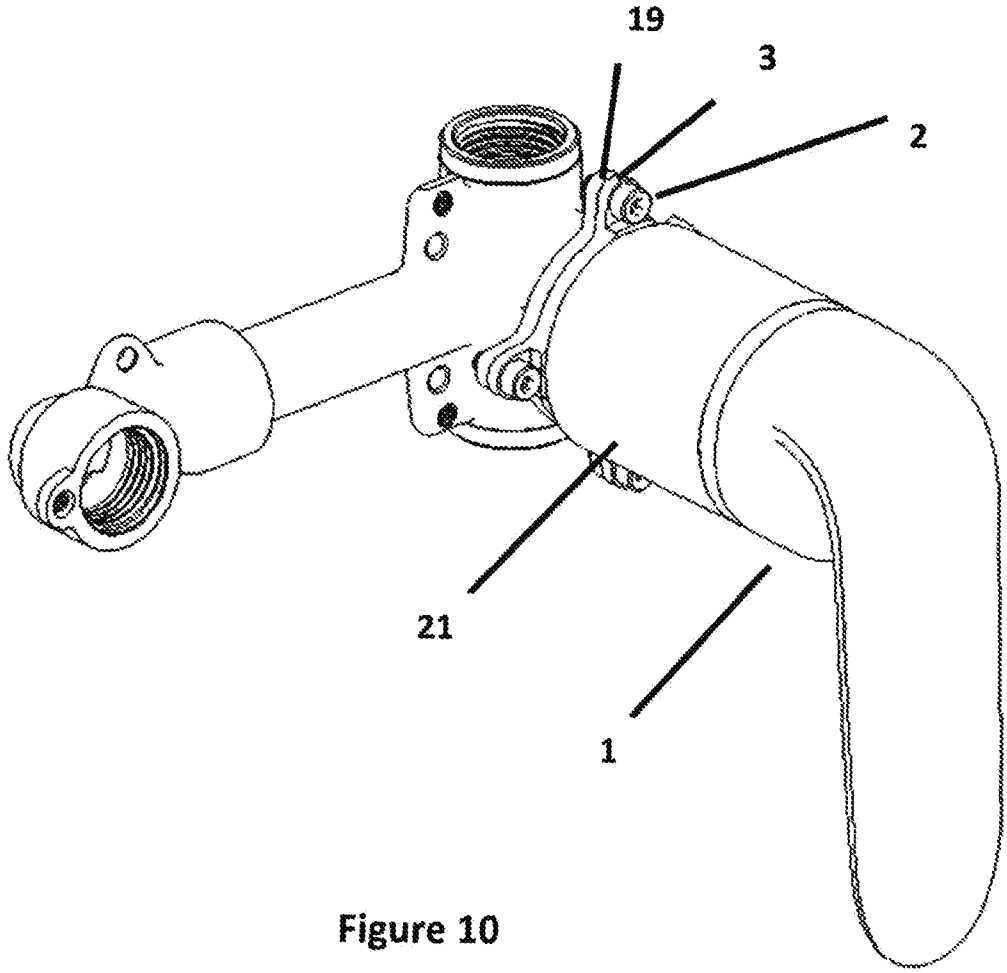
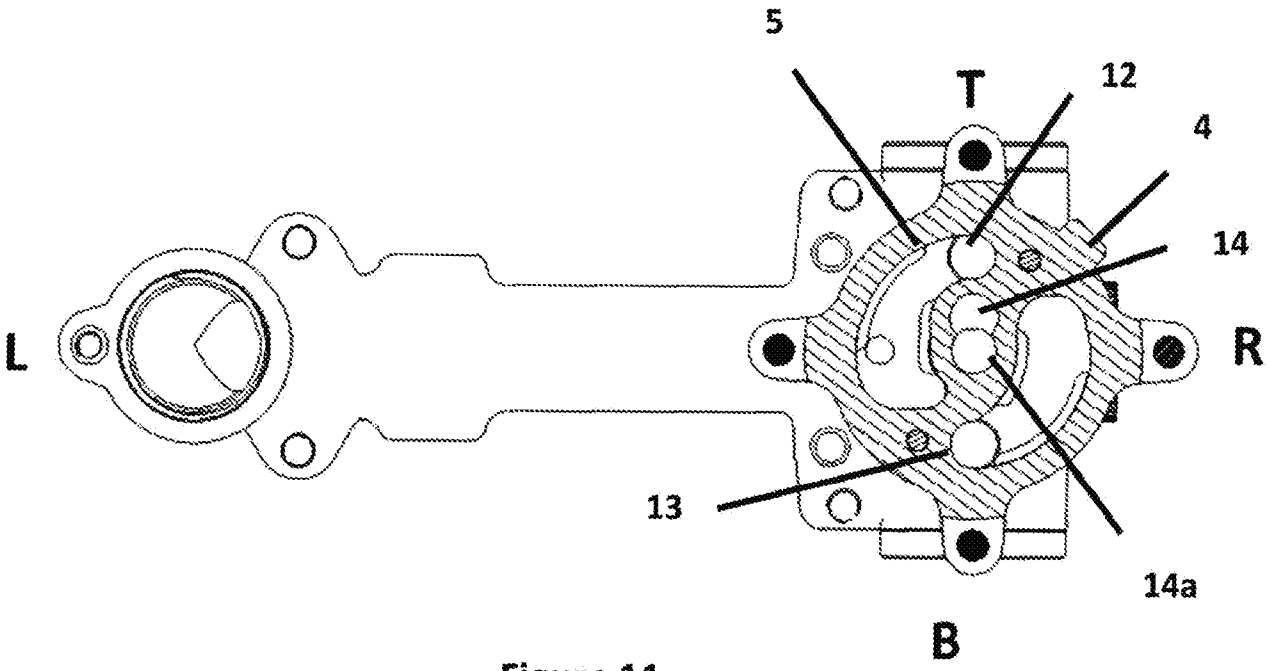


Figure 10



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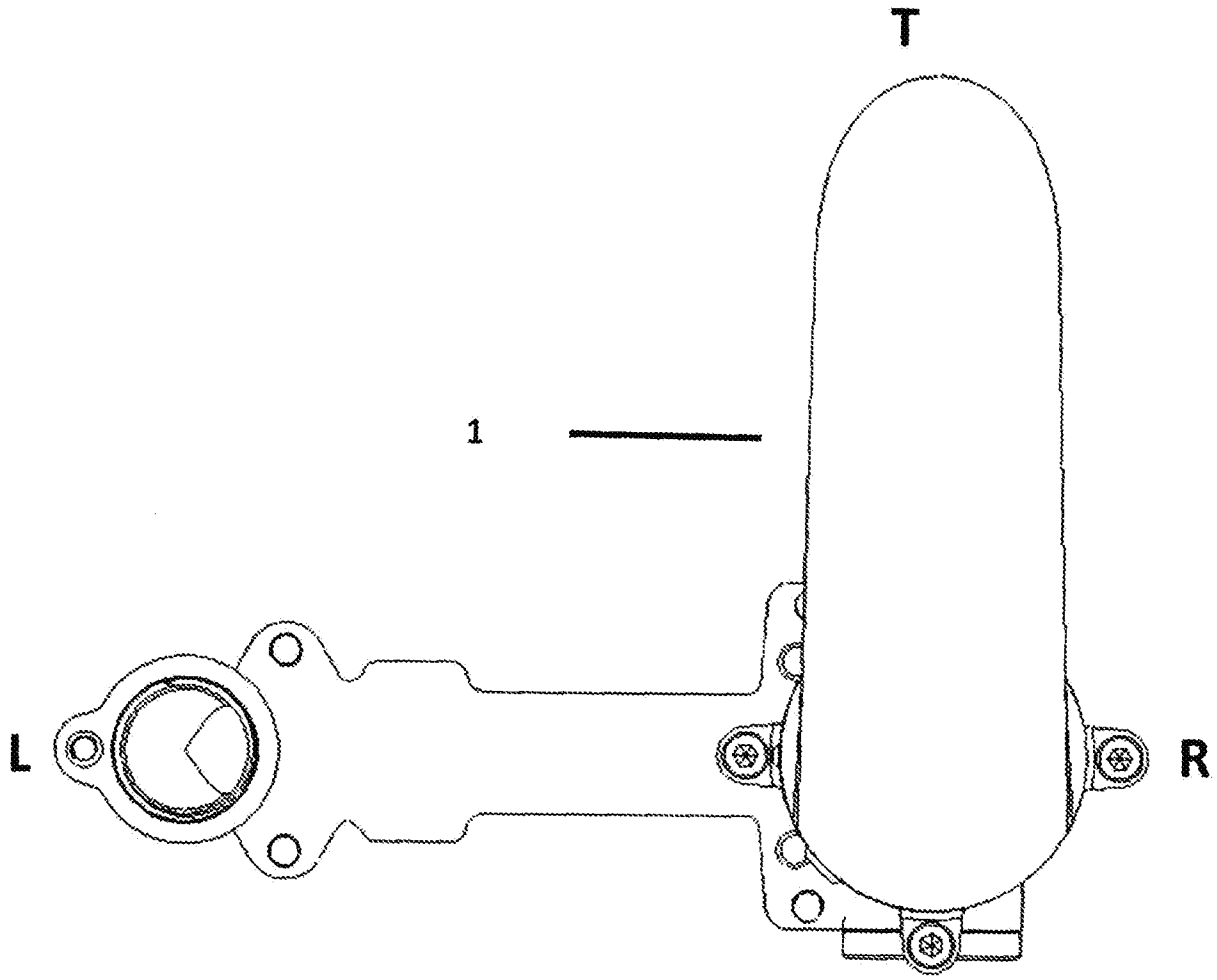

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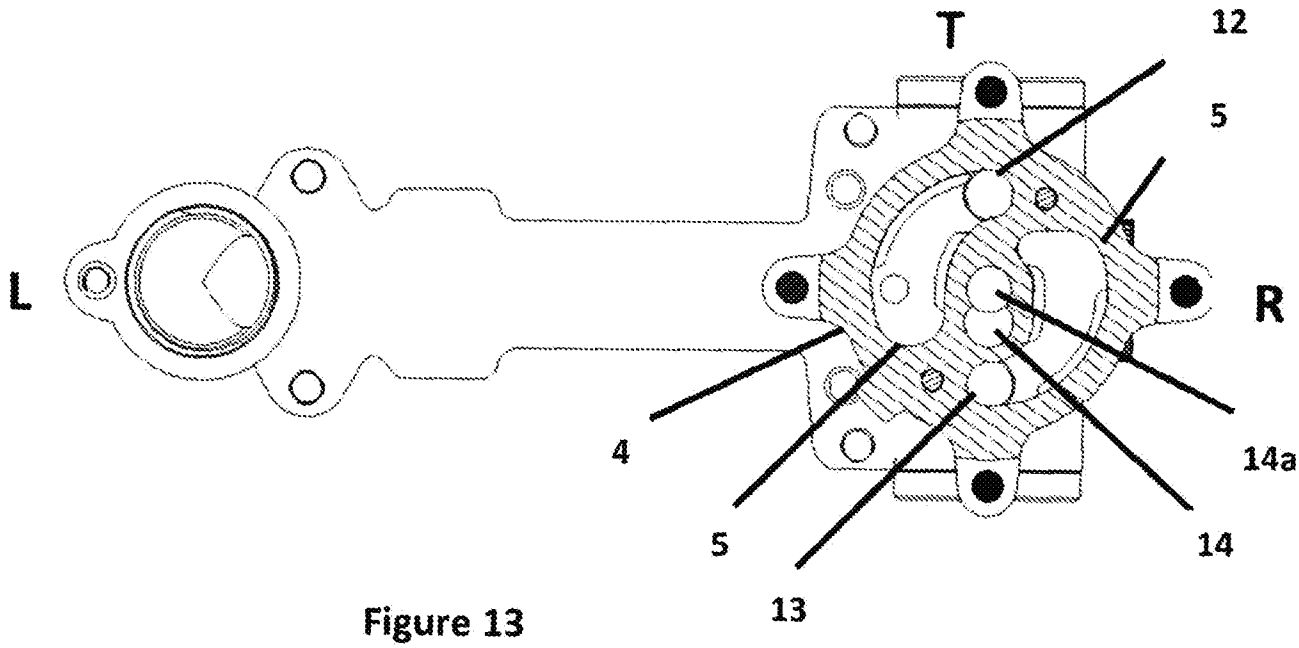


Figure 13

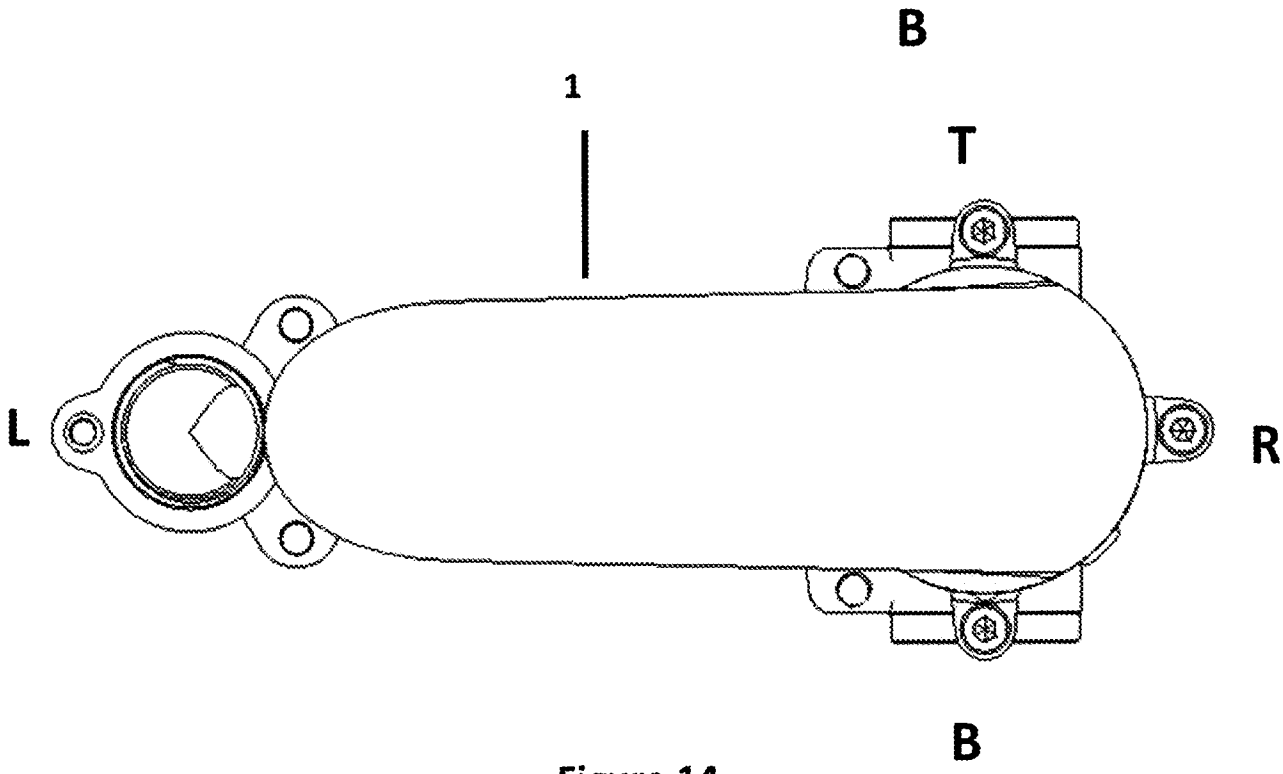
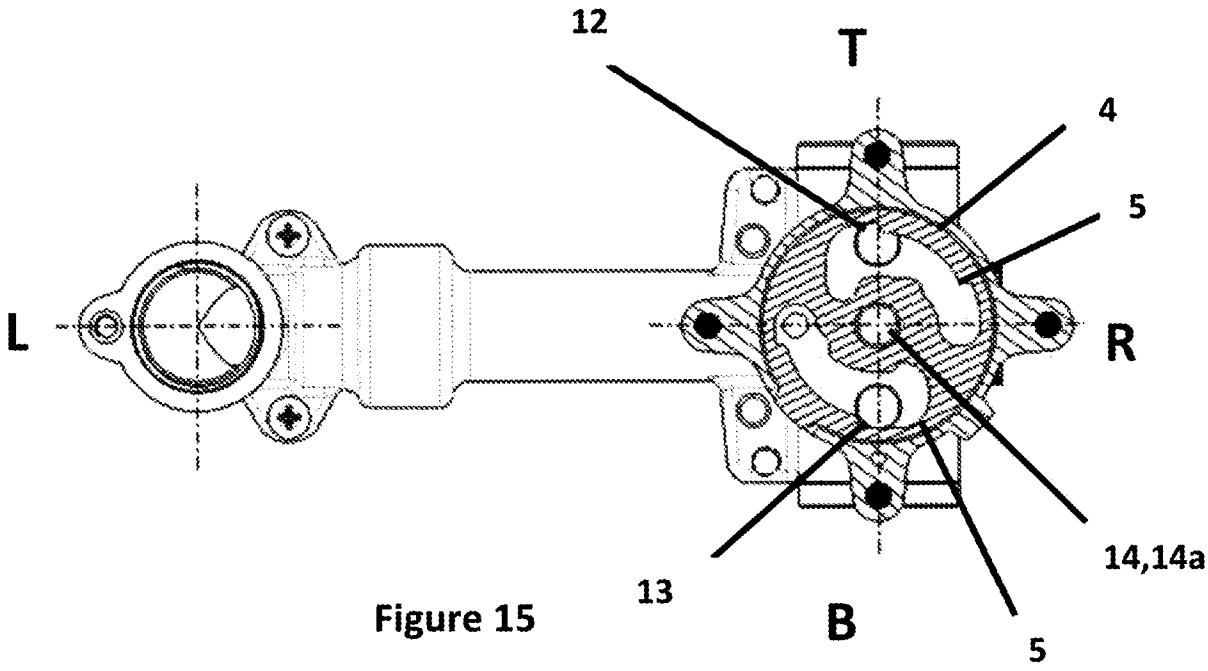


Figure 14



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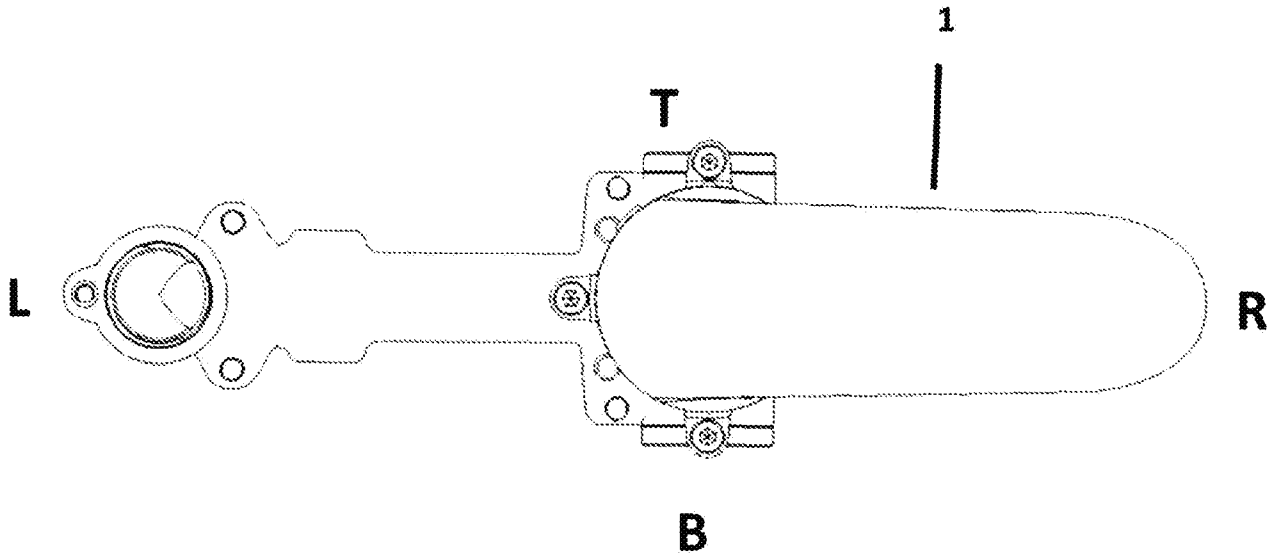

Figure 16

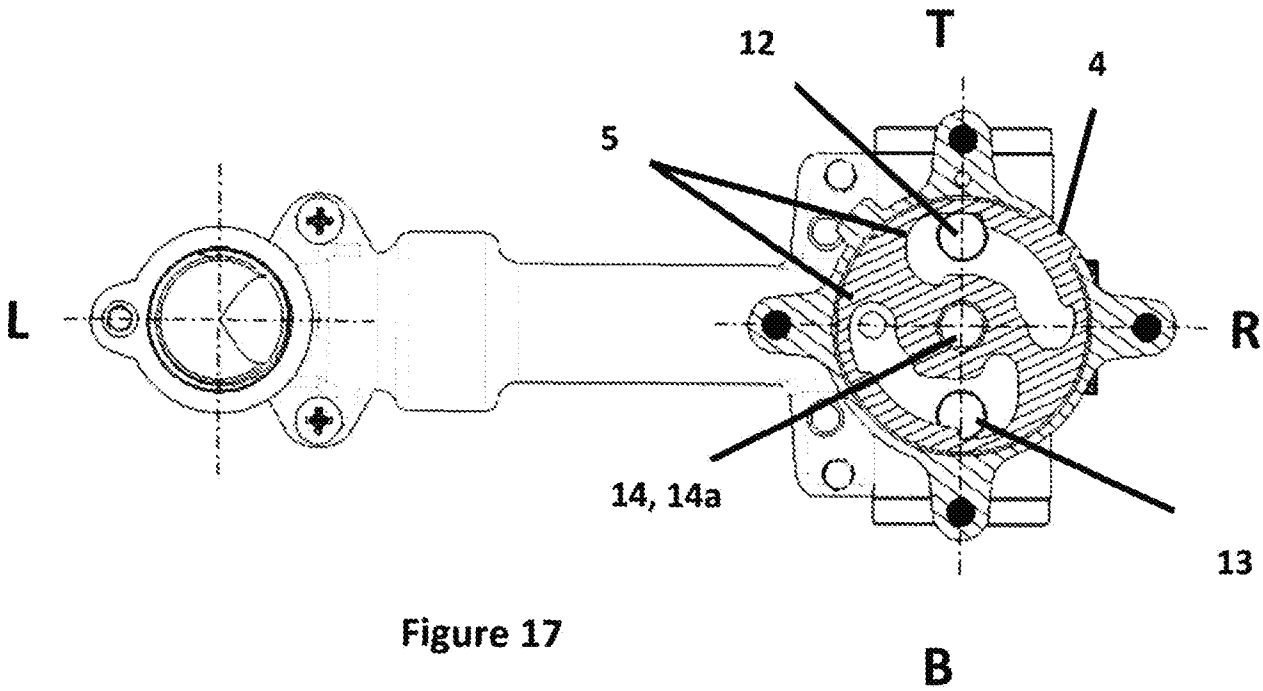

Figure 17