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(54) **SHOWER ASSEMBLY**

(57) The disclosure provides a shower assembly, comprising: a pipeline having a water supply passage (110) and an installation cavity (240), a communication port (250) arranged on a side wall of the cavity (240) and connecting the water supply passage (110) with the cavity (240); an installation member (300), having a first water passage (310), is installed in the cavity (240), a water inlet of the first passage (310) being higher than the water supply passage (110) and communicating with the port (250); and a shower head (600) installed on the cavity (240), a water outlet of the first passage (310) communicating with the shower head (600). The water inlet of the first water passage is arranged higher than the water supply passage, so that the residual water in the water supply passage is cut off at the water inlet of the first water passage and cannot flow into the shower head along the first water passage, and the residual water dripping from the shower head is greatly reduced, which not only saves water resource, but also improves the user's experience.

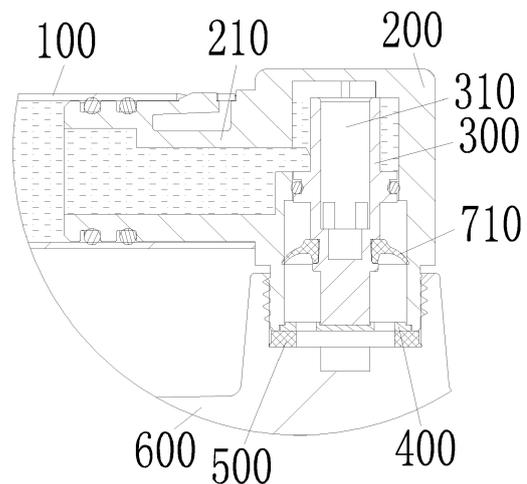


FIG. 9

EP 3 995 634 A1

Description

Technical field

[0001] The disclosure relates to the technical field of kitchen and bathroom, in particular to a shower assembly.

Background

[0002] Traditional shower assembly includes a spray pipe, a shower head, a water temperature regulating valve set and a vertical pipe. The spray pipe is transversely arranged, a water outlet end of the spray pipe is connected with the shower head, a water inlet end of the spray pipe is connected with an upper end of the vertical pipe, and a lower end of the vertical pipe is connected with the water temperature regulating valve set. After closing the water temperature regulating valve set, there is a large amount of residual water in the spray pipe, which flows into the shower head and finally drips from the shower head. The whole dripping process takes a long time, which not only causes water waste, but also reduces the user's experience.

Summary

[0003] Examples of the disclosure provide a shower assembly, which can solve the problem that the whole dripping process of residual water takes a long time after the water temperature regulating valve set is closed, which not only causes water waste, but also reduces the user's experience.

[0004] A shower assembly according to an example of the disclosure includes: a spray pipeline in which a water supply passage and an installation cavity are arranged, a communication port being arranged on a side wall of the installation cavity and for communicating the water supply passage with the installation cavity; an installation member with a first water passage, which is installed in the installation cavity, a water inlet of the first water passage being higher than the water supply passage and communicated with the communication port; and a shower head installed on the installation cavity, a water outlet of the first water passage being communicated with the shower head.

[0005] In an example, a second water passage is arranged between the water outlet of the first water passage and the shower head, a sealing member is arranged in the second water passage, and the sealing member is capable of opening the second water passage under the action of water pressure and is capable of closing the second water passage under the action of its own resilience.

[0006] In an example, the water outlet of the first water passage is located on a side wall of the installation member, the sealing member is located below the water outlet of the first water passage and sleeved on the installation

member, a lip is arranged on an outer side surface of the sealing member, and the lip abuts against an inner side surface of the installation cavity to close the second water passage.

[0007] In an example, an installation cover with an open lower end is arranged at a lower end of the installation member, a water opening is arranged on a top wall of the installation cover, the water outlet of the first water passage is located on a side wall of the installation member and above the installation cover, and is communicated with the shower head through the water opening and the installation cover; the sealing member is installed in the installation cover and covers the water opening to close the second water passage.

[0008] In an example, a positioning hole is arranged on an inner top surface of the installation cover, the sealing member includes a sealing sheet and a positioning column, the positioning column is clamped in the positioning hole, and the sealing sheet covers the water opening.

[0009] In an example, the water outlet of the first water passage is located on a side wall of the installation member, and the sealing member is sleeved on the installation member and covers the water outlet of the first water passage to close the second water passage.

[0010] In an example, the sealing member is a sealing sleeve, an annular positioning rib is arranged at one end of the sealing sleeve, an annular positioning groove is arranged on the installation member, the annular positioning rib is clamped in the annular positioning groove, and a side wall of the other end of the sealing sleeve covers the water outlet of the first water passage.

[0011] In an example, an annular boss is arranged on an outer side surface of the installation member, a sealing ring is sleeved on a surface of the annular boss, an upper annular cavity is formed above the annular boss and the sealing ring, and a lower annular cavity is formed below the annular boss and the sealing ring, the communication port is located on an outer peripheral wall of the upper annular cavity, and the water inlet of the first water passage is communicated with the upper annular cavity.

[0012] In an example, the shower head is screwed to a lower end of a cavity wall of the installation cavity, and a sealing loop is arranged between the shower head and the cavity wall of the installation cavity.

[0013] In an example, the spray pipeline includes: a transverse spray pipe, the water supply passage being located inside the spray pipe; and a spray joint connected to the spray pipe, the installation cavity being located in the spray joint.

[0014] According to the shower assembly provided by the examples of the disclosure, the water supply passage and the installation cavity are arranged inside the spray pipeline, the communication port is arranged on a side wall of the installation cavity, and the communication port is communicated with the water supply passage and the installation cavity. The installation member has the first water passage and is installed in the installation cavity,

and the shower head is installed on the installation cavity. The water outlet of the first water passage is communicated with the shower head, the water inlet of the first water passage is communicated with the communication port, the water inlet of the first water passage is arranged higher than the water supply passage, so that the residual water in the water supply passage is cut off at the water inlet of the first water passage and cannot flow into the shower head along the first water passage, and the residual water dripping from the shower head is greatly reduced, which not only saves water resource, but also improves the user's experience.

[0015] Other features and advantages of the disclosure will be set forth in the description which follows, and in part will be obvious from the description, or may be learned by implementation of the disclosure. The objects and other advantages of the disclosure can be realized and obtained by the structures particularly indicated in the description and the accompanying drawings.

Brief description of drawings

[0016] The accompanying drawings are used to provide a further understanding of the technical scheme of the disclosure, and constitute a part of the specification. They are used together with the examples of the disclosure to explain the technical schemes of the disclosure, and do not constitute a restriction on the technical schemes of the disclosure.

FIG. 1 is a schematic diagram of a three-dimensional structure of a shower assembly according to Example 1 of the disclosure;

FIG. 2 is a schematic exploded structural diagram of the shower assembly shown in FIG. 1;

FIG. 3 is a schematic diagram of a three-dimensional structure of the spray pipe in FIG. 2;

FIG. 4 is a schematic diagram of a three-dimensional structure of the spray joint in FIG. 2;

FIG. 5 is a schematic diagram of a three-dimensional structure of the installation member in FIG. 2;

FIG. 6 is a schematic diagram of a three-dimensional structure of the sealing member in FIG. 2;

FIG. 7 is a schematic diagram of a three-dimensional structure of the gasket in FIG. 2;

FIG. 8 is a schematic sectional diagram of a partial structure of the shower assembly shown in FIG. 1 in a spraying state, with an arrow indicating a pressurized water transmission direction;

FIG. 9 is a schematic sectional diagram of a partial

structure of the shower assembly shown in FIG. 1 in an off state;

FIG. 10 is a schematic diagram of a three-dimensional structure of an installation member in a shower assembly according to Example 2 of the disclosure;

FIG. 11 is a schematic diagram of a three-dimensional structure of a sealing member in a shower assembly according to Example 2 of the disclosure;

FIG. 12 is a schematic sectional diagram of a partial structure of a shower assembly in a spraying state according to Example 2 of the disclosure, with an arrow indicating a pressurized water transmission direction;

FIG. 13 is a schematic sectional diagram of a partial structure of a shower assembly in an off state according to Example 2 of the disclosure;

FIG. 14 is a schematic diagram of a three-dimensional structure of an installation member in a shower assembly according to Example 3 of the disclosure;

FIG. 15 is a schematic diagram of a three-dimensional structure of a sealing member in a shower assembly according to Example 3 of the disclosure;

FIG. 16 is a schematic sectional diagram of a partial structure of a shower assembly in a spraying state according to Example 3 of the disclosure, with an arrow indicating a pressurized water transmission direction; and

FIG. 17 is a schematic sectional diagram of a partial structure of a shower assembly in an off state according to Example 3 of the disclosure.

[0017] The correspondence between reference signs and component names in FIGS. 1-17 is as follows:

100- spray pipe, 110- water supply passage, 120- positioning notch, 130- positioning round hole, 200- spray joint, 210- connecting mouthpiece, 220- elastic positioning column, 230-positioning rib, 240- installation cavity, 250- communication port, 300- installation member, 310- first water passage, 320- annular positioning groove, 330- annular boss, 340- installation cover, 350- water opening, 360- positioning hole, 400- gasket, 410- communication hole, 500-sealing loop, 600- shower head, 610- sealing surface, 700- sealing member, 710- lip, 720- annular positioning rib, 730- sealing sheet, 740- positioning column, 810- upper annular cavity, 820- lower annular cavity.

Detailed description

[0018] In order to make the objects, technical schemes

and advantages of the disclosure clearer, examples of the disclosure will be described in detail below with reference to the accompanying drawings. It should be noted that the examples in the disclosure and the features in the examples can be arbitrarily combined with each other if there is no conflict.

Example 1

[0019] As shown in FIGS. 1-9, a shower assembly provided by the disclosure includes a spray pipeline, an installation member 300, a gasket 400, a sealing loop 500, a shower head 600 and a sealing member 700. The spray pipeline includes a spray pipe 100 and a spray joint 200.

[0020] As shown in FIG. 3, FIG. 8 and FIG. 9, the spray pipe 100 is a transverse round pipe, and a water supply passage 110 is formed inside the round pipe. A positioning notch 120 and a positioning round hole 130 are arranged on a side wall of an outlet end of the round pipe, and the positioning notch 120 is located axially outside the positioning round hole 130.

[0021] As shown in FIG. 4, FIG. 8 and FIG. 9, a connecting mouthpiece 210 is protruded from a side wall of the spray joint 200, an elastic positioning column 220 and a positioning rib 230 are axially spaced on an outer side surface of the connecting mouthpiece 210, and a silicone ring is arranged on the outer side surface of the connecting mouthpiece 210. An installation cavity 240 with an open lower portion is arranged inside the spray joint 200, and a communication port 250 is arranged on a common wall between the installation cavity 240 and the connecting mouthpiece 210. The communication port 250 is communicated with the connecting mouthpiece 210 and the installation cavity 240, and an external thread is arranged on an outer side surface of a lower end of the installation cavity 240.

[0022] As shown in FIG. 5, FIG. 8 and FIG. 9, a first water passage 310 is arranged inside the installation member 300. A water inlet of the first water passage 310 is located on a top wall of the installation member 300, a water outlet of the first water passage 310 is located on a side wall of the installation member 300, and four water outlets are uniformly distributed along a circumferential direction. An annular positioning groove 320 is arranged on an outer side surface of the installation member 300, and the annular positioning groove 320 is located below the water outlets of the first water passage 310. An annular boss 330 is arranged on the outer side surface of the middle portion of the installation member 300. The annular boss 330 is located above the water outlets of the first water passage 310, and a silicone ring is arranged on a surface of the annular boss 330. In an example, the annular boss 330 includes upper and lower portions, a groove is provided between the upper and lower portions, and a silicone ring is arranged in the groove.

[0023] As shown in FIG. 6, FIG. 8 and FIG. 9, the sealing member 700 has a ring shape, and a lip 710 is ar-

ranged on an outer side surface of the sealing member 700.

[0024] As shown in FIG. 7, FIG. 8, and FIG. 9, the gasket 400 is provided with a communication hole 410, and there are four communication holes 410 uniformly distributed along the circumferential direction.

[0025] As shown in FIG. 2, FIG. 8 and FIG. 9, an internal thread and an upward sealing surface 610 are provided in a connection port of the shower head 600.

[0026] The assembly relationship between the components of the shower assembly is as follows.

[0027] As shown in FIG. 3, FIG. 4, FIG. 8 and FIG. 9, by pressing the elastic positioning column 220, the connecting mouthpiece 210 is inserted into the outlet end of the spray pipe 100, so that the elastic positioning column 220 is clamped in the positioning round hole 130, and the positioning rib 230 is inserted into the positioning notch 120, thereby completing a sealing connection between the spray pipe 100 and the connecting mouthpiece 210. As shown in FIGS. 4-6, FIG. 8 and FIG. 9, the sealing member 700 is clamped in the annular positioning groove 320 of the installation member 300, and then the installation member 300 and the sealing member 700 are installed in the installation cavity 240 together. The annular boss 330 seals and abuts against the inner side surface of the installation cavity 240. The annular boss 330 divides a space between the outer side surface of the installation member 300 and the inner side surface of the installation cavity 240 into an upper annular cavity 810 and a lower annular cavity 820. The communication port 250 is located on an outer peripheral wall of the upper annular cavity 810. The water inlet of the first water passage 310 is higher than the communication port 250. The water inlet of the first water passage 310 is spaced from the top wall of the installation cavity 240 to communicate with the upper annular cavity 810. The lip 710 of the sealing member 700 abuts against an outer peripheral wall of the lower annular cavity 820 to close the lower annular cavity 820 (i.e., close a second water passage, which includes the lower annular cavity 820). As shown in FIGS. 7-9, the sealing loop 500 and gasket 400 are then sequentially installed into the connection port of the shower head 600, and the sealing loop 500 rests on the sealing surface 610 and an edge of the gasket 400 rests on the sealing loop 500. As shown in FIG. 8 and FIG. 9, when the connection port of the shower head 600 is screwed to the lower end of the installation cavity 240, the lower end of the installation member 300 abuts against the central portion of the gasket 400, and the lower end surface of the installation cavity 240 simultaneously abuts against the sealing loop 500 and the edge of the gasket 400.

[0028] The shower assembly is used as follows.

[0029] As shown in FIG. 8, when pressurized water is supplied into the spray pipe 100, the pressurized water flows along the water supply passage 110 and then passes sequentially through the communication port 250, the upper annular cavity 810, the water inlet of the first water passage 310, the first water passage 310 and the water

outlet of the first water passage 310 to reach the lower annular cavity 820. Under the action of water pressure, the lip 710 is pushed away from the outer peripheral wall of the lower annular cavity 820, and the pressurized water smoothly passes through the lower annular cavity 820, and finally enters the shower head 600 along the communication holes 410, so that the shower head 600 smoothly sprays water downward.

[0030] As shown in FIG. 9, when the supply of pressurized water into the spray pipe 100 is stopped, because the water inlet of the first water passage 310 is higher than the water supply passage 110, the residual water in the water supply passage 110 is cut off at the water inlet of the first water passage 310 and cannot enter the water inlet of the first water passage 310, and thus it cannot reach the shower head 600 and can only be stored in the spray pipe 100. Therefore, the residual water dripping from the shower head 600 is greatly reduced, which can not only save water resource, but also shorten the dripping time of the residual water, making the user's experience better. In addition, during the dripping of the residual water in the shower head 600, a negative pressure will be created in the first water passage 310. The lip 710 will abut against the outer peripheral wall of the installation cavity 240 again under the action of its own resilience and negative pressure, thus closing the lower annular cavity 820, preventing the residual water above the sealing member 700 from flowing downwards, further reducing the residual water dripping from the shower head 600 and further shortening the dripping time of the residual water.

Example 2

[0031] This Example differs from the Example 1 in that: As shown in FIG. 10, FIG. 12 and FIG. 13, an annular positioning groove 320 is arranged on the outer side surface of the installation member 300, and the annular positioning groove 320 is located between the water outlet of the first water passage 310 and the annular boss 330.

[0032] As shown in FIGS. 11-13, the sealing member 700 is a sealing sleeve, and an upper end of the sealing sleeve is provided with an annular positioning rib 720.

[0033] As shown in FIGS. 10-13, the annular positioning rib 720 is clamped in the annular positioning groove 320, so that the sealing sleeve is sleeved on the installation member 300, and a lower end side wall of the sealing sleeve covers the water outlet of the first water passage 310.

[0034] The use of shower assembly is different as follows.

[0035] As shown in FIG. 12, when pressurized water is supplied into the spray pipe 100, the pressurized water flows along the water supply passage 110 and then passes sequentially through the communication port 250, the upper annular cavity 810, the water inlet of the first water passage 310, and the first water passage 310 to reach the water outlet of the first water passage 310. Under the

action of water pressure, the lower end side wall of the sealing sleeve is pushed away from the installation member 300, thus releasing the water outlet of the first water passage 310, so that the pressurized water passes smoothly through the water outlet of the first water passage 310, and finally enters the shower head 600 along the communication holes 410, so that the shower head 600 smoothly sprays water downward.

[0036] As shown in FIG. 13, when the supply of pressurized water into the spray pipe 100 is stopped, the sealing sleeve covers the water outlet of the first water passage 310 again under the action of its own resilience, thus preventing the residual water in the first water passage 310 from flowing downwards, further reducing the residual water dripping from the shower head 600 and further shortening the dripping time of the residual water.

Example 3

[0037] This Example differs from the Example 1 in that: As shown in FIG. 14, FIG. 16 and FIG. 17, the lower end of the installation member 300 is provided with an installation cover 340 with an open lower end. A top wall of the installation cover 340 is provided with a water opening 350. The water opening 350 is located radially outside the water outlet of the first water passage 310, and there are eight water openings which are circumferentially spaced. The water outlet of the first water passage 310 is located on the side wall of the installation member 300 and above the installation cover 340 and is communicated with the inside of the installation cover 340 through the lower annular cavity 820 and the water opening 350. An inner top surface of the installation cover 340 is provided with a positioning hole 360 extending towards a lower end opening.

[0038] As shown in FIGS. 15-17, the sealing member 700 includes a sealing sheet 730 and a positioning column 740, and the positioning column 740 is located at a central portion of the sealing sheet 730.

[0039] As shown in FIGS. 14-17, the positioning column 740 is clamped in the positioning hole 360, so that the sealing member is fixed in the installation cover 340, and an edge of the sealing sheet 730 covers the water opening 350 upward.

[0040] The use of shower assembly is different as follows.

[0041] As shown in FIG. 16, when pressurized water is supplied into the spray pipe 100, the pressurized water flows along the water supply passage 110 and then passes sequentially through the communication port 250, the upper annular cavity 810, the water inlet of the first water passage 310, the first water passage 310, the water outlet of the first water passage 310 and the lower annular cavity 820 to reach the water opening 350. Under the action of water pressure, the edge of the sealing sheet 730 is pushed away from a top wall of the installation cover 340, thus releasing the water opening 350. Pressurized water smoothly enters the shower head 600 through the water

opening 350, so that the shower head 600 can smoothly spray water downward (the second water passage includes the lower annular cavity 820, the water opening 350 and the inside of the installation cover 340).

[0042] As shown in FIG. 17, when the supply of pressurized water into the spray pipe 100 is stopped, a negative pressure will be created in the first water passage 310 and the inside of the lower ring cavity 820 during the dripping of the residual water in the shower head 600. The sealing sheet 730 abuts against the top wall of the installation cover 340 under the action of its own resilience and negative pressure and covers the water opening 350, thus preventing the residual water in the first water passage 310 and the lower annular cavity 820 from flowing downwards, further reducing the residual water dripping from the shower head 600 and further shortening the dripping time of the residual water.

[0043] In the description of the disclosure, it should be noted that the orientation or positional relationship indicated by the terms "upper", "lower", "one side", "the other side", "one end", "the other end", "side", "opposite", "four

corners", "periphery", "'□-shaped' structure" and the like is an orientation or positional relationship based on the drawings, which is only for the convenience of describing the disclosure and simplifying the description, and does not indicate or imply that the referred structure has a specific orientation, is constructed and operated in a specific orientation and therefore, it cannot be understood as a limitation of the disclosure.

[0044] In the description of examples of the disclosure, unless otherwise explicitly specified and limited, the terms "connection", "direct connection", "indirect connection", "fixed connection", "installation" and "assembly" should be broadly understood. For example, they may be fixed connection, detachable connection or integrated connection. The terms "installation", "connection" and "fixed connection" may be direct connection, or indirect connection through an intermediate medium, or internal communication between two elements. For those of ordinary skill in the art, the specific meanings of the above terms in the disclosure can be understood according to specific situations.

[0045] Although the examples disclosed in the disclosure are described above, the examples are described only for the convenience of understanding the disclosure, and are not intended to limit the disclosure. Any person skilled in the art to which the disclosure pertains can make any modifications and changes in the implementation forms and details, but the scope of patent protection of the disclosure shall still be determined by the scope defined in the appended claims.

Claims

1. A shower assembly, comprising:

a spray pipeline, in which a water supply passage (110) and an installation cavity (240) are arranged, a communication port (250) being arranged on a side wall of the installation cavity (240) and for communicating the water supply passage (110) with the installation cavity (240); an installation member (300) with a first water passage (310), which is installed in the installation cavity (240), a water inlet of the first water passage (310) being higher than the water supply passage (110) and communicated with the communication port (250); and a shower head (600) installed on the installation cavity (240), a water outlet of the first water passage (310) being communicated with the shower head (600).

2. The shower assembly according to claim 1, wherein a second water passage is arranged between the water outlet of the first water passage (310) and the shower head (600), a sealing member (700) is arranged in the second water passage, and the sealing member (700) is capable of opening the second water passage under the action of water pressure and is capable of closing the second water passage under the action of its own resilience.
3. The shower assembly according to claim 2, wherein the water outlet of the first water passage (310) is located on a side wall of the installation member (300), the sealing member (700) is located below the water outlet of the first water passage (310) and sleeved on the installation member (300), a lip (710) is arranged on an outer side surface of the sealing member (700), and the lip (710) abuts against an inner side surface of the installation cavity (240) to close the second water passage.
4. The shower assembly according to claim 2, wherein an installation cover (340) with an open lower end is arranged at a lower end of the installation member (300), a water opening (350) is arranged on a top wall of the installation cover (340), the water outlet of the first water passage (310) is located on a side wall of the installation member (300) and above the installation cover (340), and is communicated with the shower head (600) through the water opening (350) and the installation cover (340), and the sealing member (700) is installed in the installation cover (340) and covers the water opening (350) to close the second water passage.
5. The shower assembly according to claim 4, wherein a positioning hole (360) is arranged on an inner top surface of the installation cover (340), the sealing member (700) comprises a sealing sheet (730) and a positioning column (740), the positioning column (740) is clamped in the positioning hole (360), and

the sealing sheet (730) covers the water opening (350).

6. The shower assembly according to claim 2, wherein the water outlet of the first water passage (310) is located on a side wall of the installation member (300), and the sealing member (700) is sleeved on the installation member (300) and covers the water outlet of the first water passage (310) to close the second water passage.
7. The shower assembly according to claim 6, wherein the sealing member (700) is a sealing sleeve, an annular positioning rib (720) is arranged at one end of the sealing sleeve, an annular positioning groove (320) is arranged on the installation member (300), the annular positioning rib (720) is clamped in the annular positioning groove (320), and a side wall of the other end of the sealing sleeve covers the water outlet of the first water passage (310).
8. The shower assembly according to any one of claims 1 to 7, wherein an annular boss (330) is arranged on an outer side surface of the installation member (300), a sealing ring is sleeved on a surface of the annular boss (330), an upper annular cavity (810) is formed above the annular boss (330) and the sealing ring, a lower annular cavity (820) is formed below the annular boss (330) and the sealing ring, the communication port (250) is located on an outer peripheral wall of the upper annular cavity (810), and the water inlet of the first water passage (310) is communicated with the upper annular cavity (810).
9. The shower assembly according to any one of claims 1 to 7, wherein the shower head (600) is screwed to a lower end of a cavity wall of the installation cavity (240), and a sealing loop (500) is arranged between the shower head (600) and the cavity wall of the installation cavity (240).
10. The shower assembly according to any one of claims 1 to 7, wherein the spray pipeline comprises:
- a transverse spray pipe (100), the water supply passage (110) being located inside the spray pipe (100); and
 - a spray joint (200) connected to the spray pipe (100), the installation cavity (240) being located in the spray joint (200).

Amended claims in accordance with Rule 137(2) EPC.

1. A shower assembly, comprising:
- a spray pipeline, in which a water supply pas-

sage (110) and an installation cavity (240) are arranged, a communication port (250) being arranged on a side wall of the installation cavity (240) and for communicating the water supply passage (110) with the installation cavity (240); **characterized by** further comprising:

an installation member (300) with a first water passage (310), which is installed in the installation cavity (240), a water inlet of the first water passage (310) being communicated with the communication port (250) and being arranged higher than the water supply passage (110), so that residual water in the water supply passage (110) is cut off at the water inlet of the first water passage (310) and cannot flow into a shower head (600) along the first water passage (310); and

the shower head (600) installed on the installation cavity (240), a water outlet of the first water passage (310) being communicated with the shower head (600);

wherein a second water passage is arranged between the water outlet of the first water passage (310) and the shower head (600), a sealing member (700) is arranged in the second water passage, and the sealing member (700) is capable of opening the second water passage under the action of water pressure and is capable of closing the second water passage under the action of its own resilience.

2. The shower assembly according to claim 1, wherein the water outlet of the first water passage (310) is located on a side wall of the installation member (300), the sealing member (700) is located below the water outlet of the first water passage (310) and sleeved on the installation member (300), a lip (710) is arranged on an outer side surface of the sealing member (700), and the lip (710) abuts against an inner side surface of the installation cavity (240) to close the second water passage.
3. The shower assembly according to claim 1, wherein an installation cover (340) with an open lower end is arranged at a lower end of the installation member (300), a water opening (350) is arranged on a top wall of the installation cover (340), the water outlet of the first water passage (310) is located on a side wall of the installation member (300) and above the installation cover (340), and is communicated with the shower head (600) through the water opening (350) and the installation cover (340), and the sealing member (700) is installed in the installation cover (340) and covers the water opening (350) to close the second water passage.

4. The shower assembly according to claim 3, wherein a positioning hole (360) is arranged on an inner top surface of the installation cover (340), the sealing member (700) comprises a sealing sheet (730) and a positioning column (740), the positioning column (740) is clamped in the positioning hole (360), and the sealing sheet (730) covers the water opening (350). 5
5. The shower assembly according to claim 1, wherein the water outlet of the first water passage (310) is located on a side wall of the installation member (300), and the sealing member (700) is sleeved on the installation member (300) and covers the water outlet of the first water passage (310) to close the second water passage. 10 15
6. The shower assembly according to claim 5, wherein the sealing member (700) is a sealing sleeve, an annular positioning rib (720) is arranged at one end of the sealing sleeve, an annular positioning groove (320) is arranged on the installation member (300), the annular positioning rib (720) is clamped in the annular positioning groove (320), and a side wall of the other end of the sealing sleeve covers the water outlet of the first water passage (310). 20 25
7. The shower assembly according to any one of claims 1 to 6, wherein an annular boss (330) is arranged on an outer side surface of the installation member (300), a sealing ring is sleeved on a surface of the annular boss (330), an upper annular cavity (810) is formed above the annular boss (330) and the sealing ring, a lower annular cavity (820) is formed below the annular boss (330) and the sealing ring, the communication port (250) is located on an outer peripheral wall of the upper annular cavity (810), and the water inlet of the first water passage (310) is communicated with the upper annular cavity (810). 30 35 40
8. The shower assembly according to any one of claims 1 to 6, wherein the shower head (600) is screwed to a lower end of a cavity wall of the installation cavity (240), and a sealing loop (500) is arranged between the shower head (600) and the cavity wall of the installation cavity (240). 45
9. The shower assembly according to any one of claims 1 to 6, wherein the spray pipeline comprises: 50
- a transverse spray pipe (100), the water supply passage (110) being located inside the spray pipe (100); and
- a spray joint (200) connected to the spray pipe (100), the installation cavity (240) being located in the spray joint (200). 55

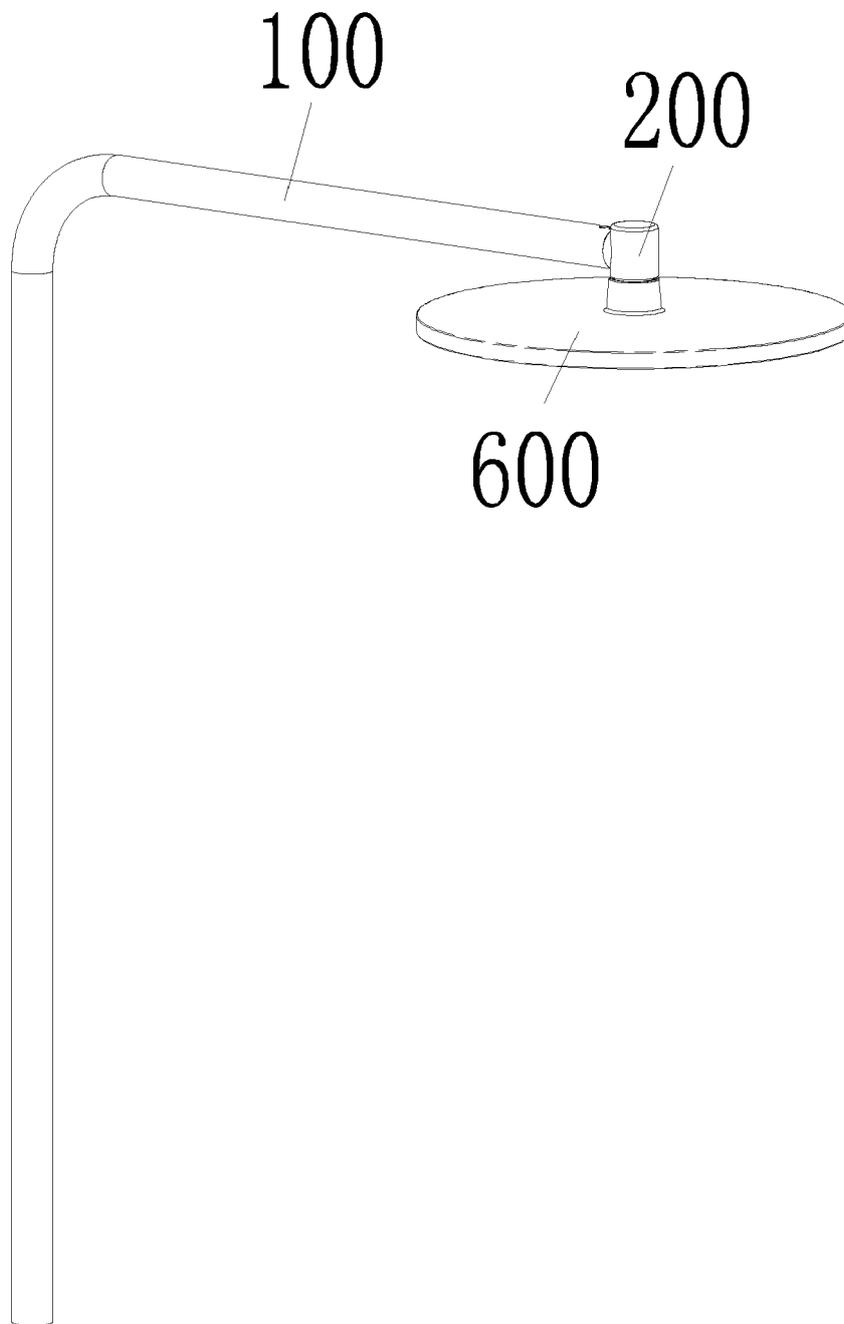


FIG. 1

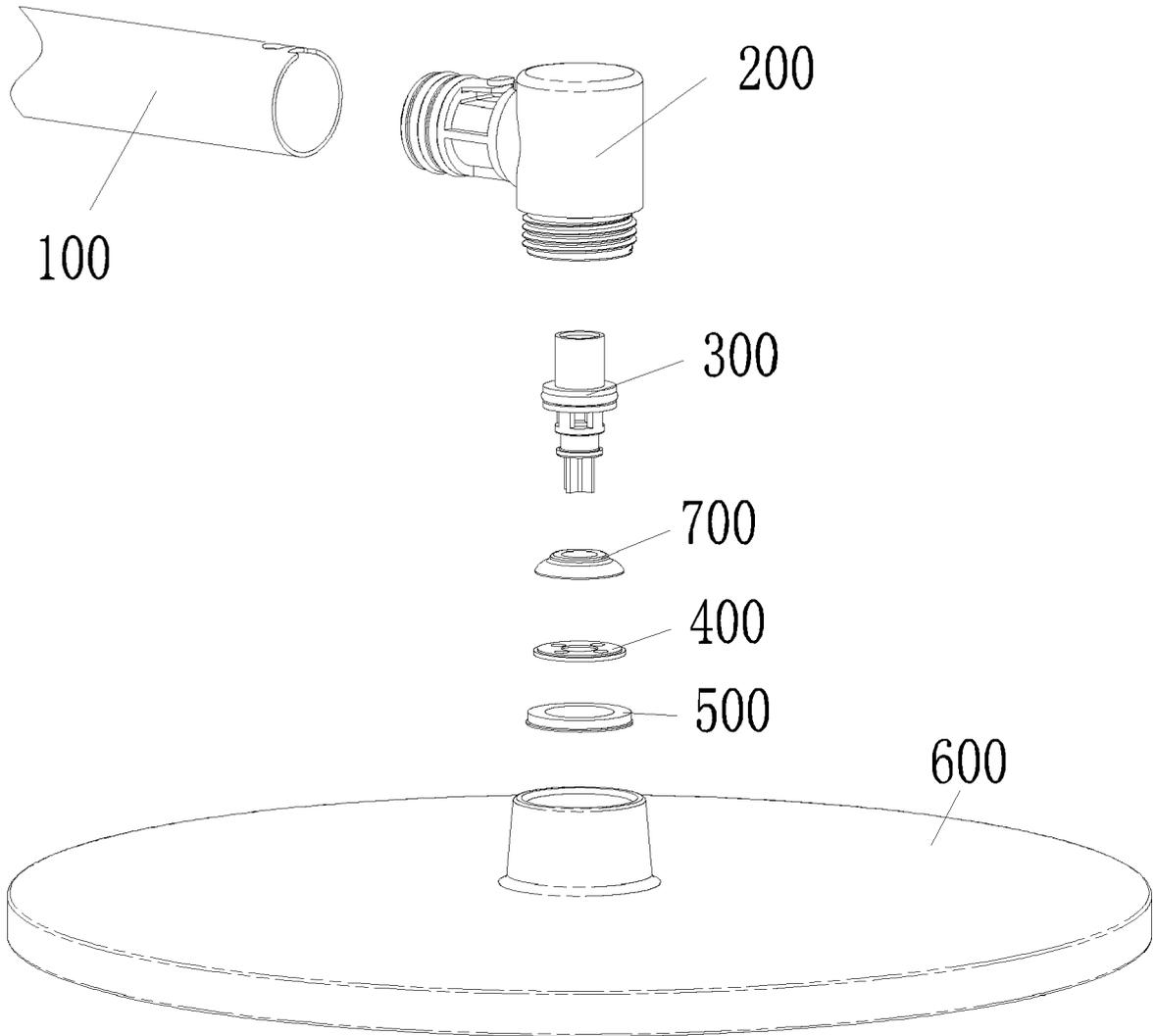


FIG. 2

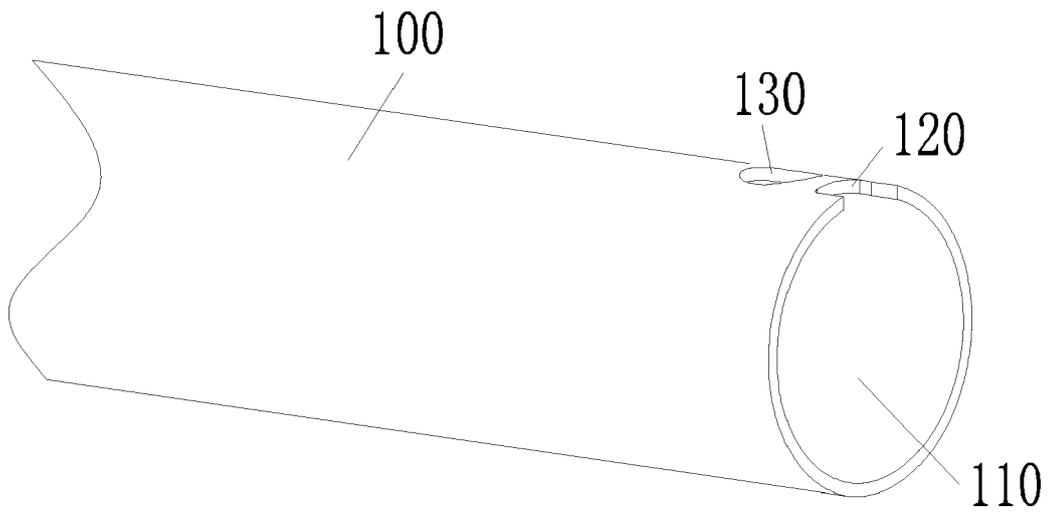


FIG. 3

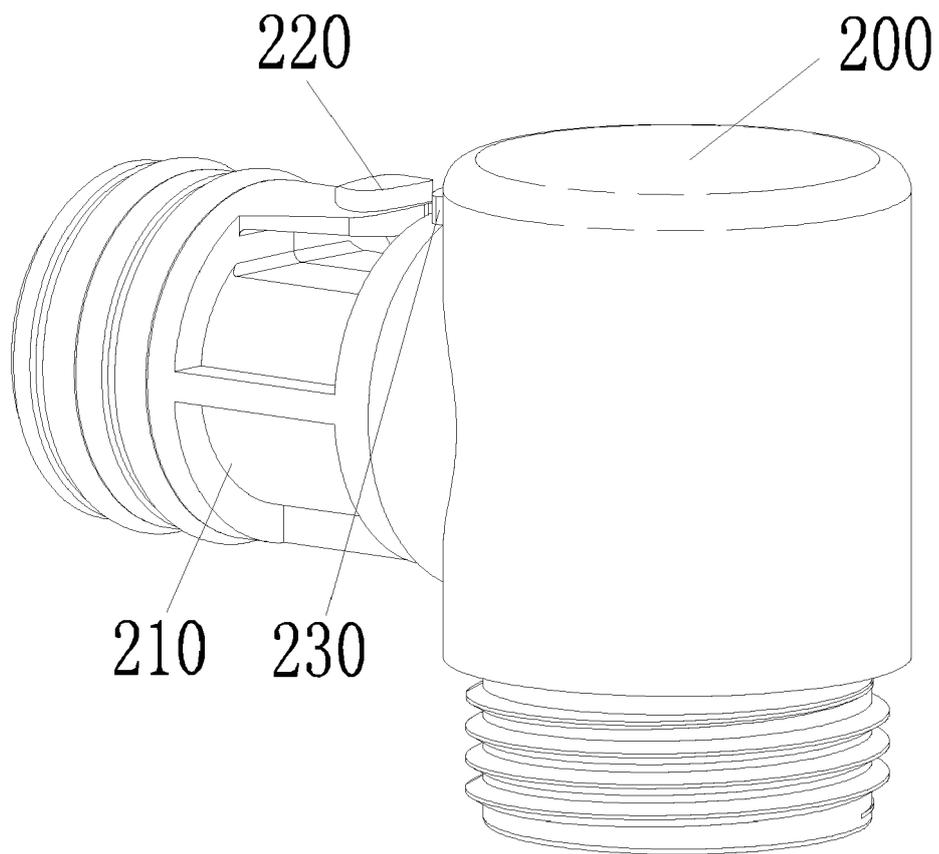


FIG. 4

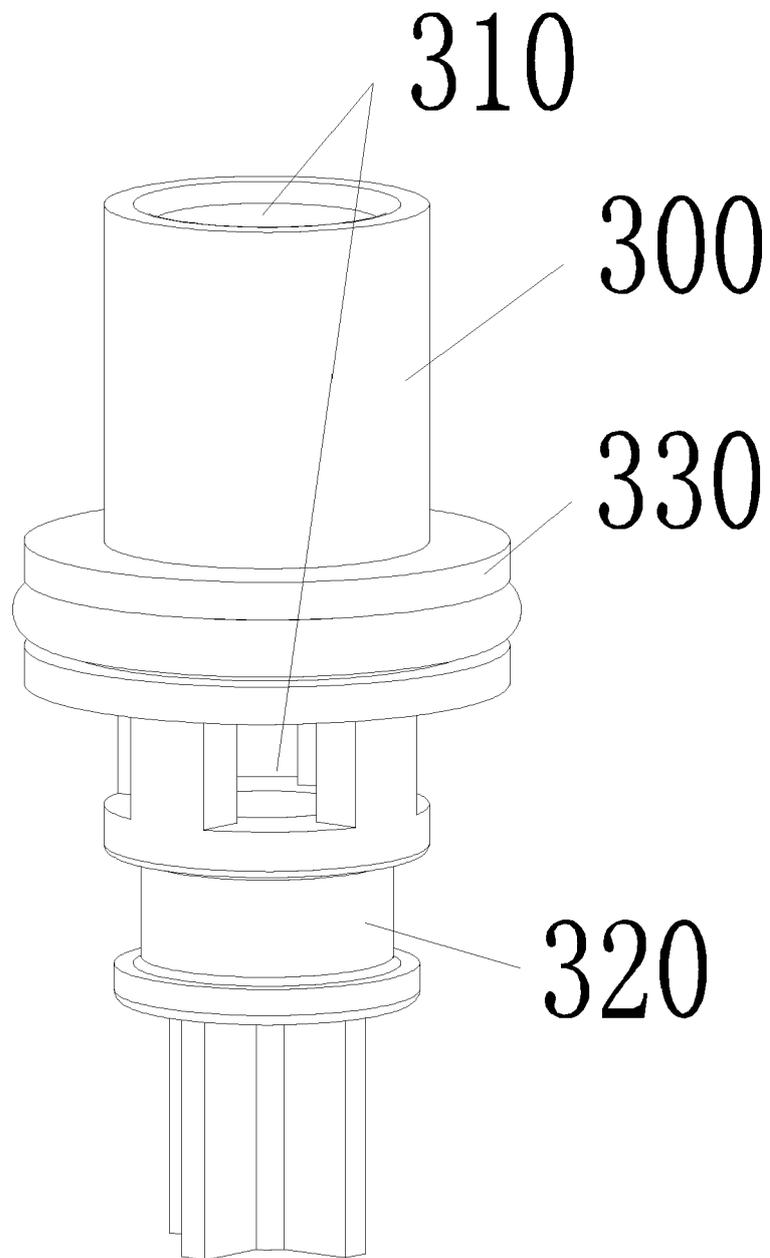


FIG. 5

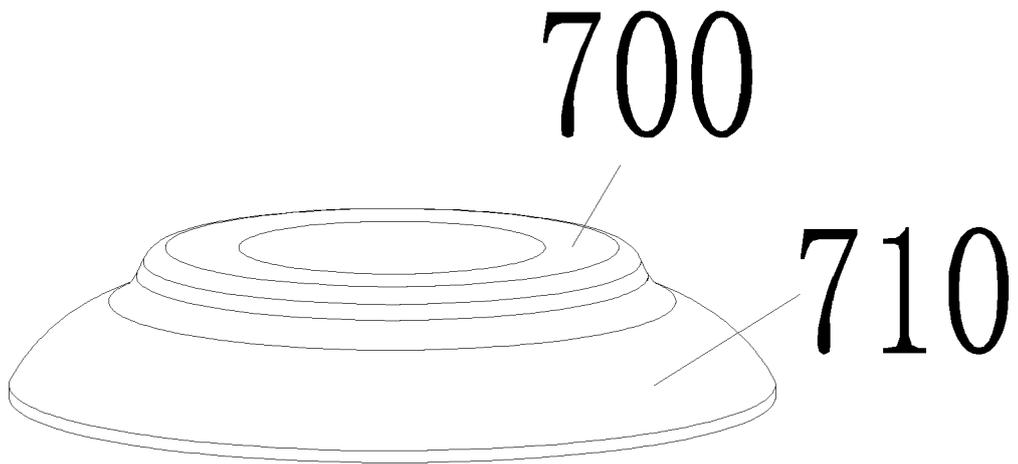


FIG. 6

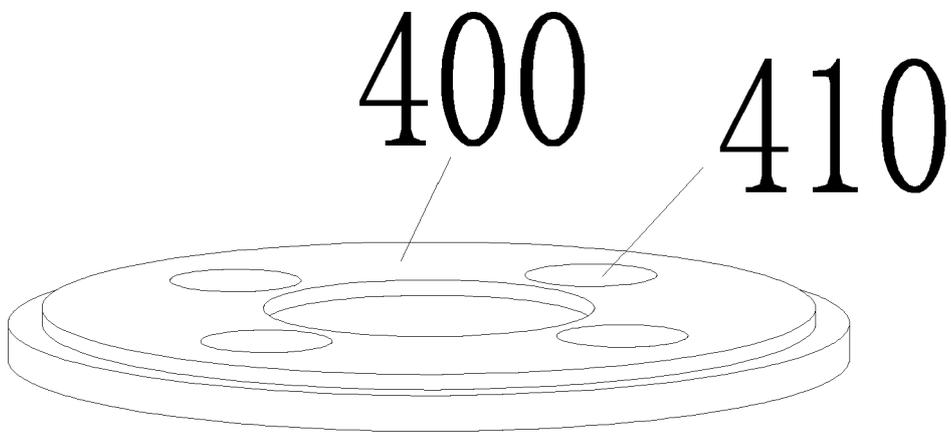


FIG. 7

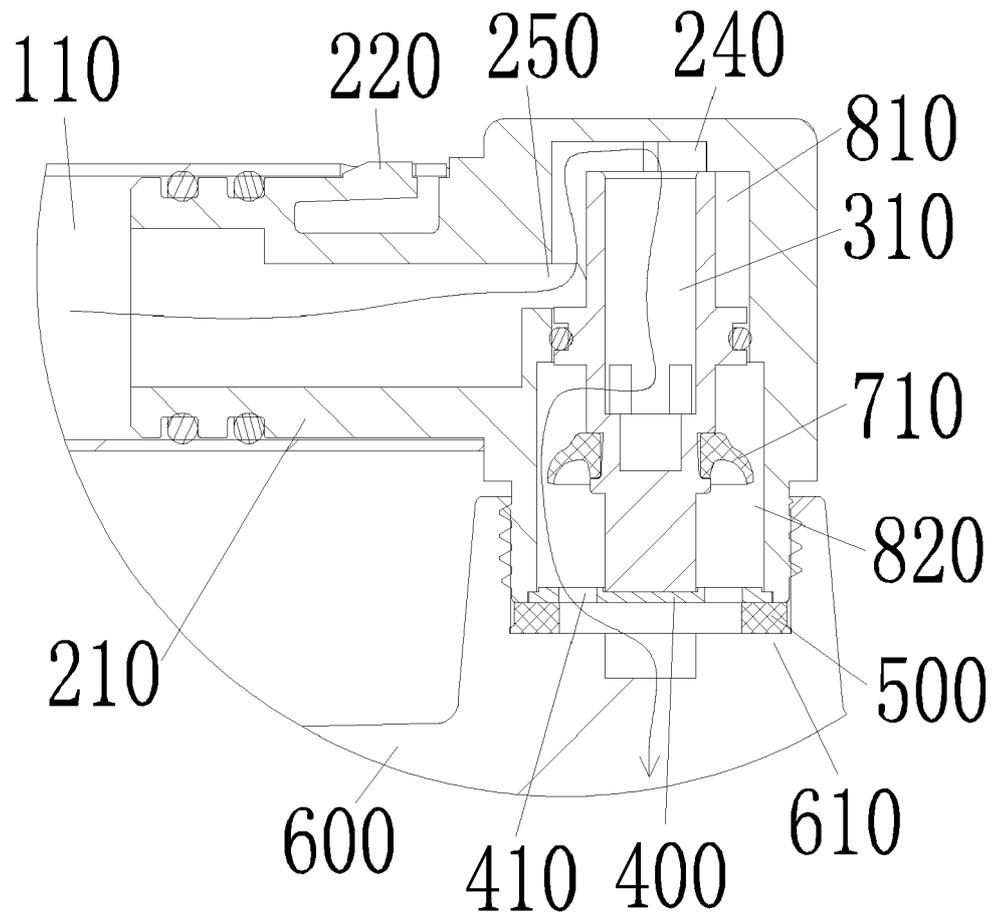


FIG. 8

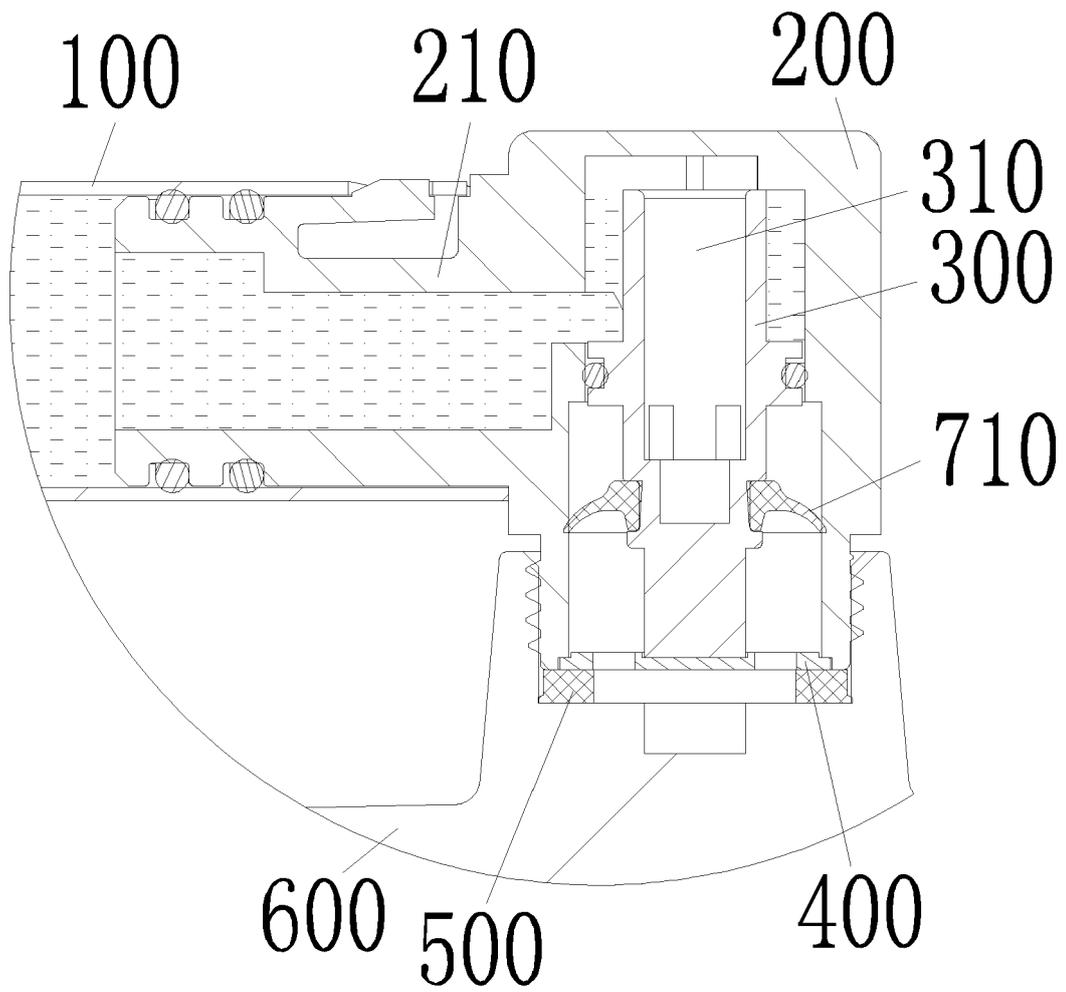


FIG. 9

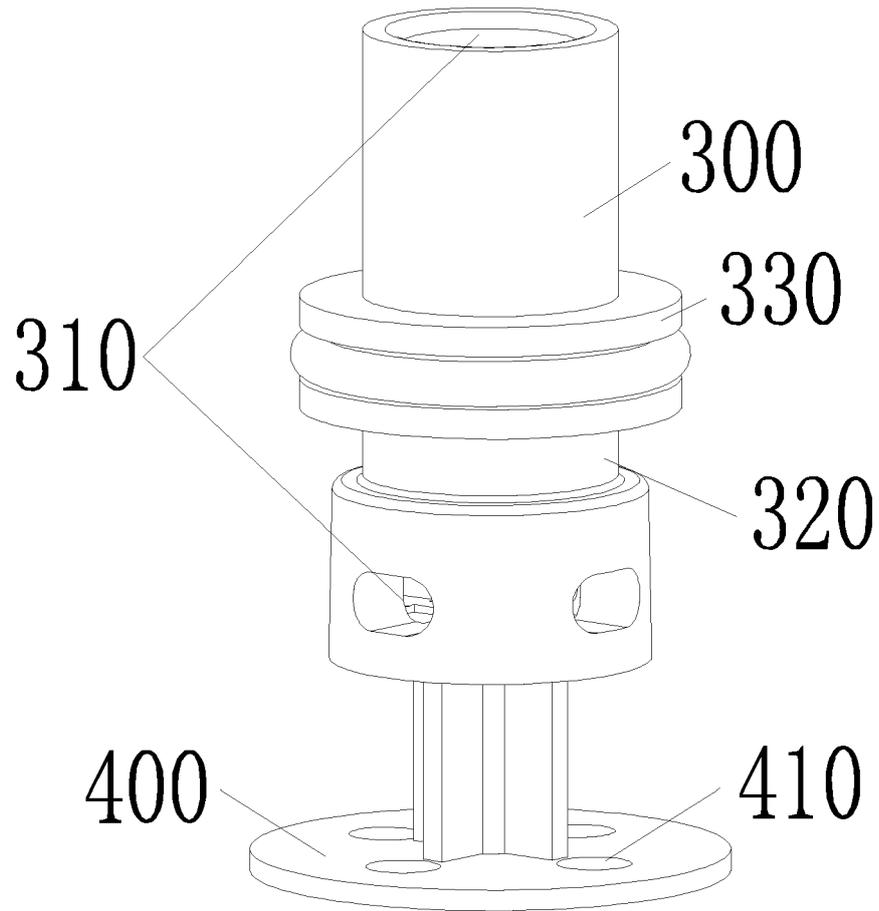


FIG. 10

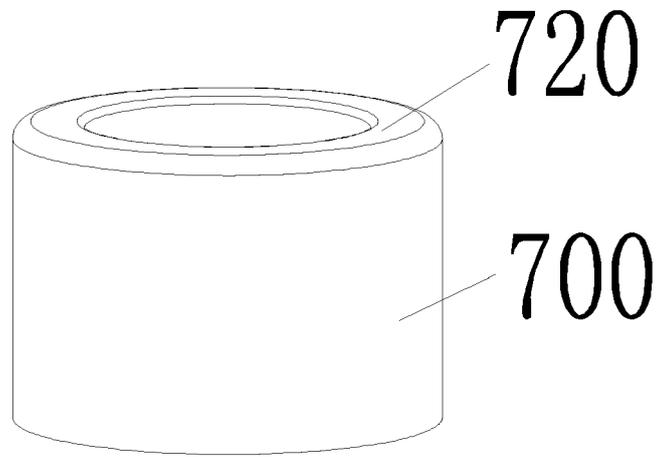


FIG. 11

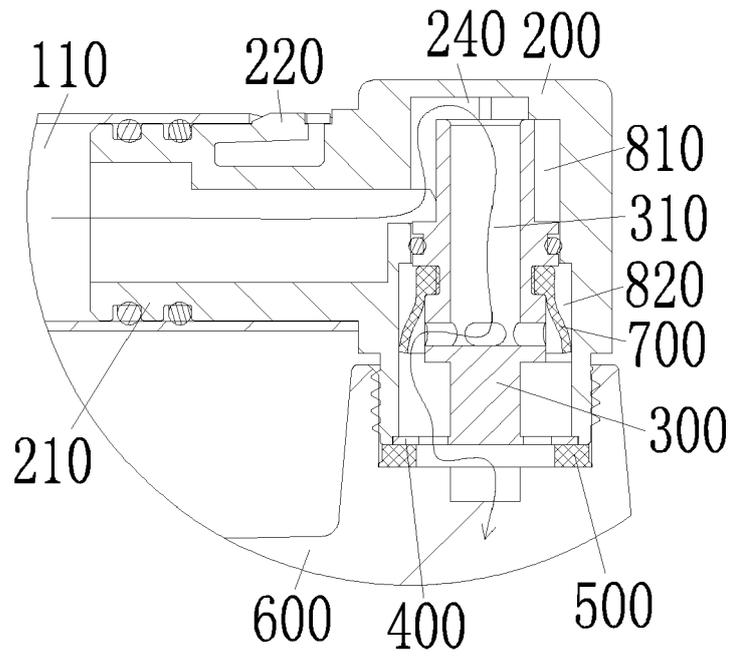


FIG. 12

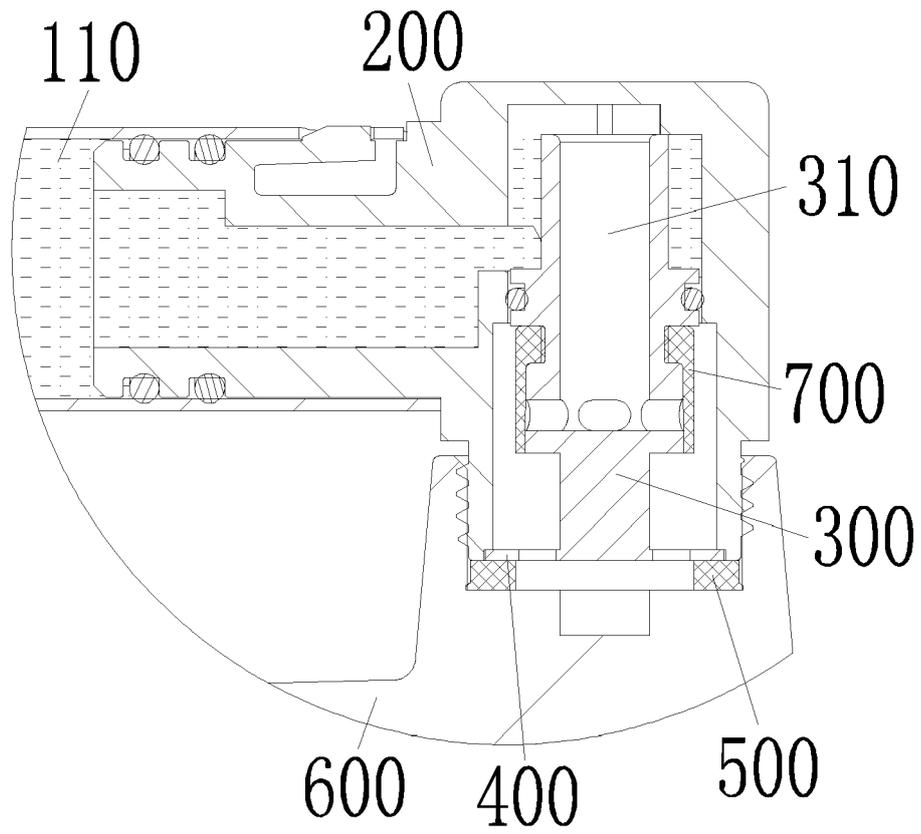


FIG. 13

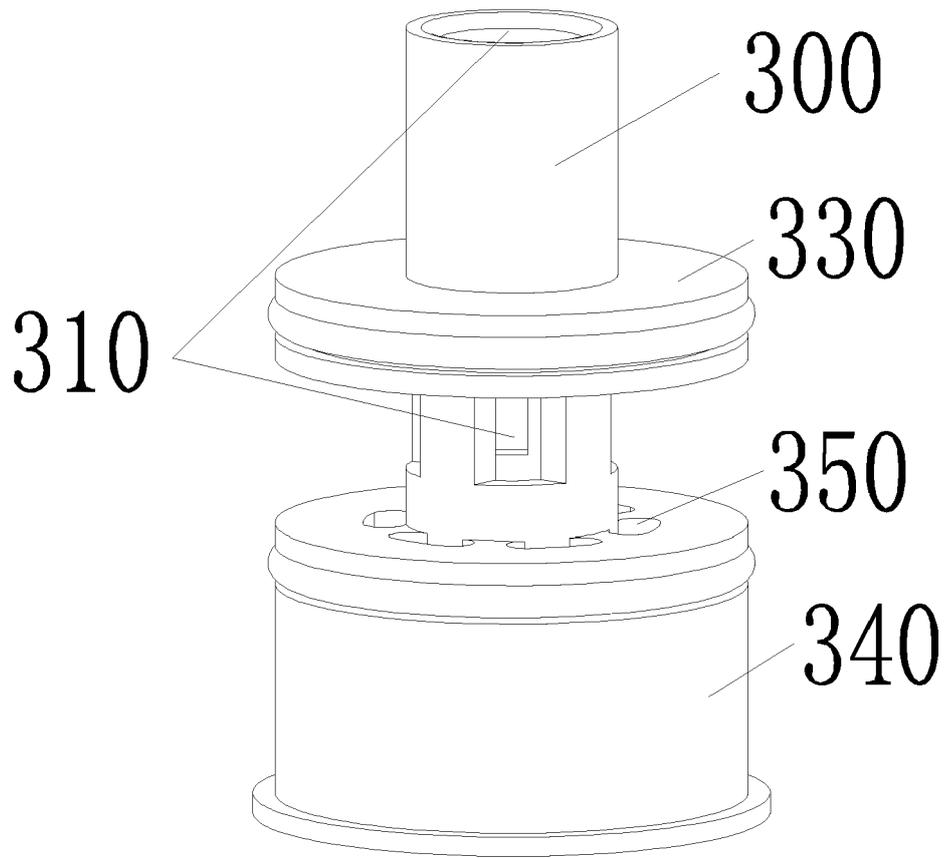


FIG. 14

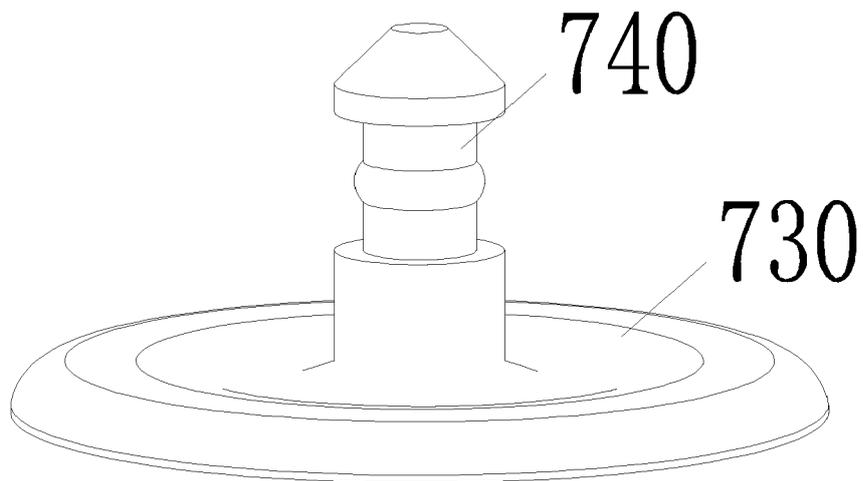


FIG. 15

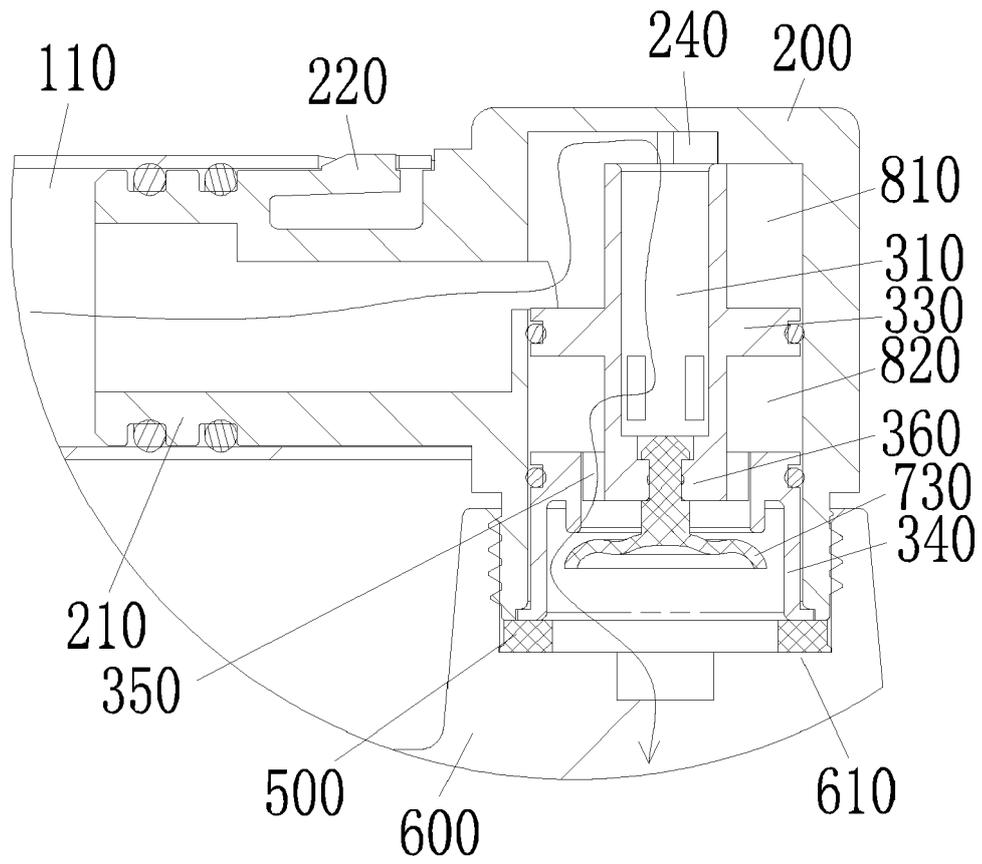


FIG. 16

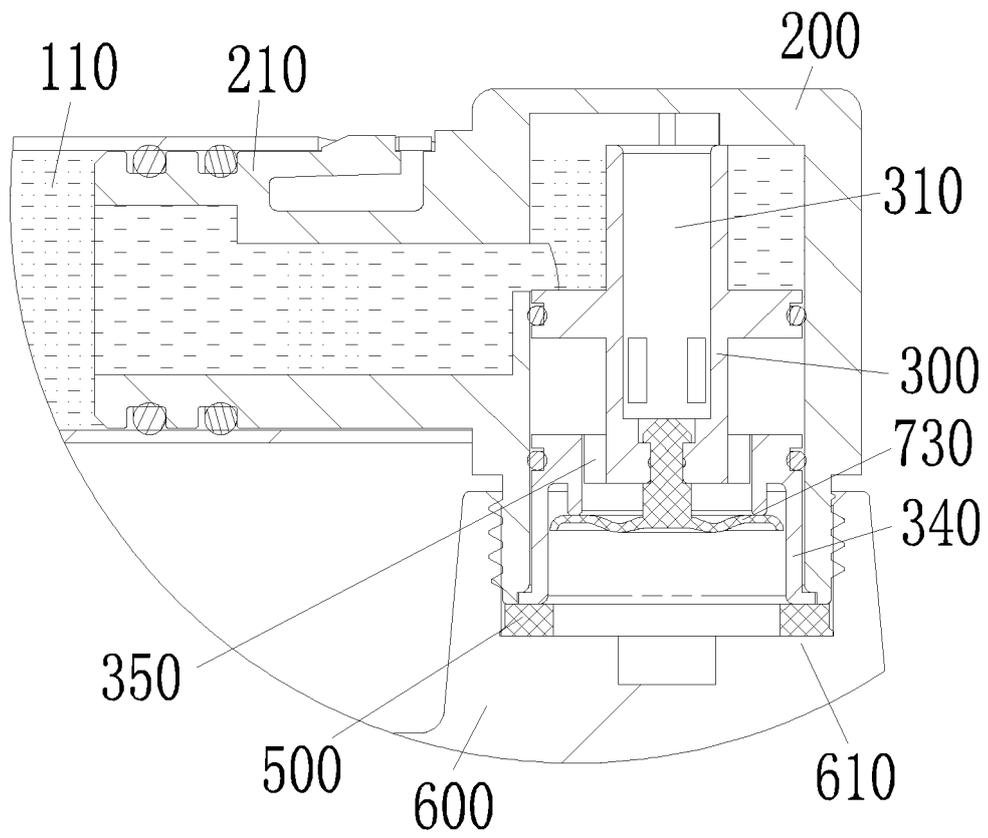


FIG. 17



EUROPEAN SEARCH REPORT

Application Number
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			TECHNICAL FIELDS SEARCHED (IPC)
			B65D B05B E03C
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 25 June 2021	Examiner Isailovski, Marko
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25-06-2021

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