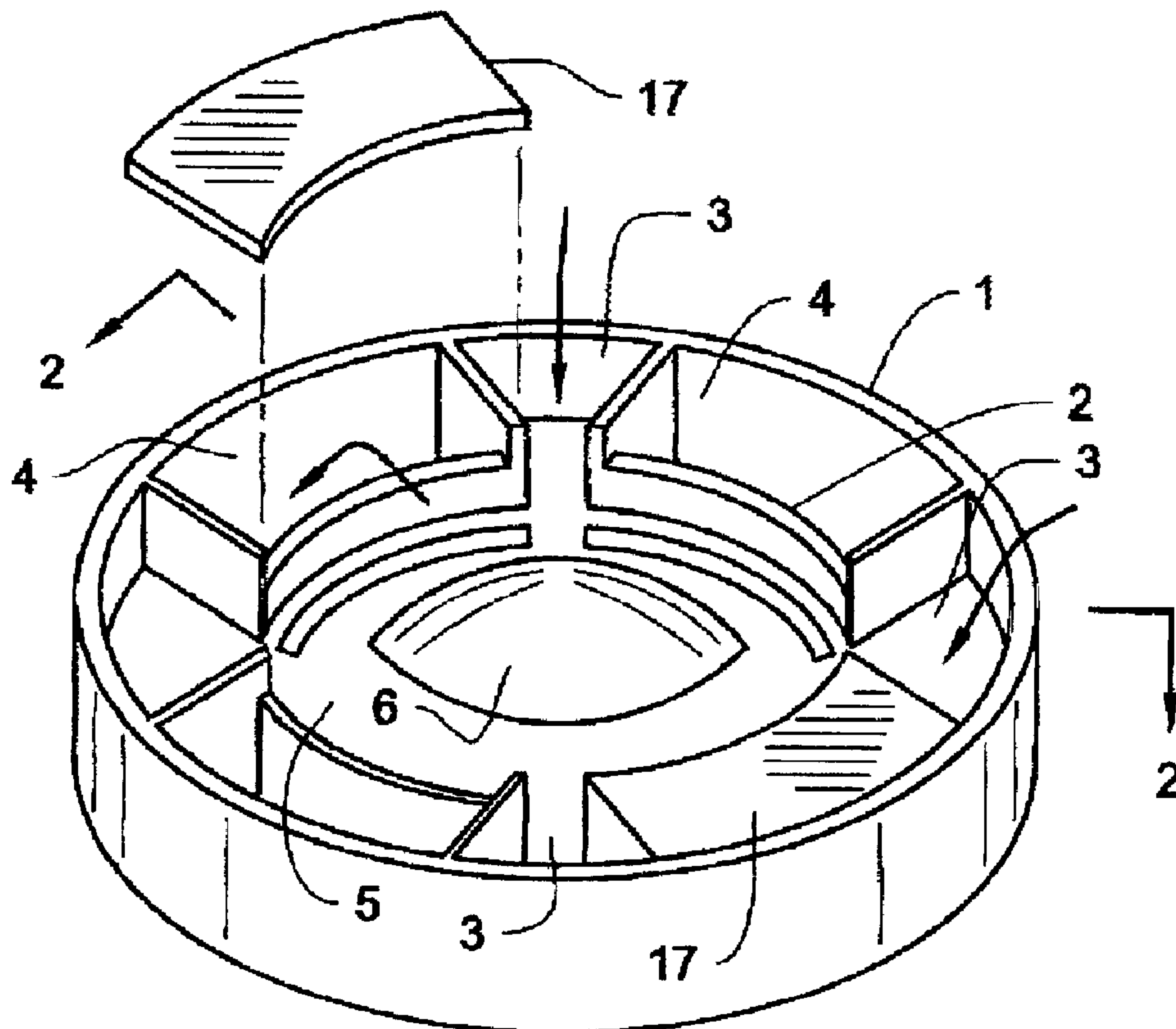




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(54) Titre : DISPOSITIF DE DRAINAGE SANITAIRE
(54) Title: SANITARY DRAINAGE DEVICE



(57) Abrégé/Abstract:

A sanitary drainage device comprising a stainless steel vent (4) with an inner and outer rim (2, 1) and water inlets (3) which are used to direct the flow of water from a shower or the like to a sunken surface (5) where it is contained and pushed slowly to the drainage vent by the domed inner surface. This arrangement provides a certain amount of water at the upper end of the device that can be used for cleaning the surrounding surfaces of the shower cubicle or the like while at the same time passing water through the device which ensures its sanitation.



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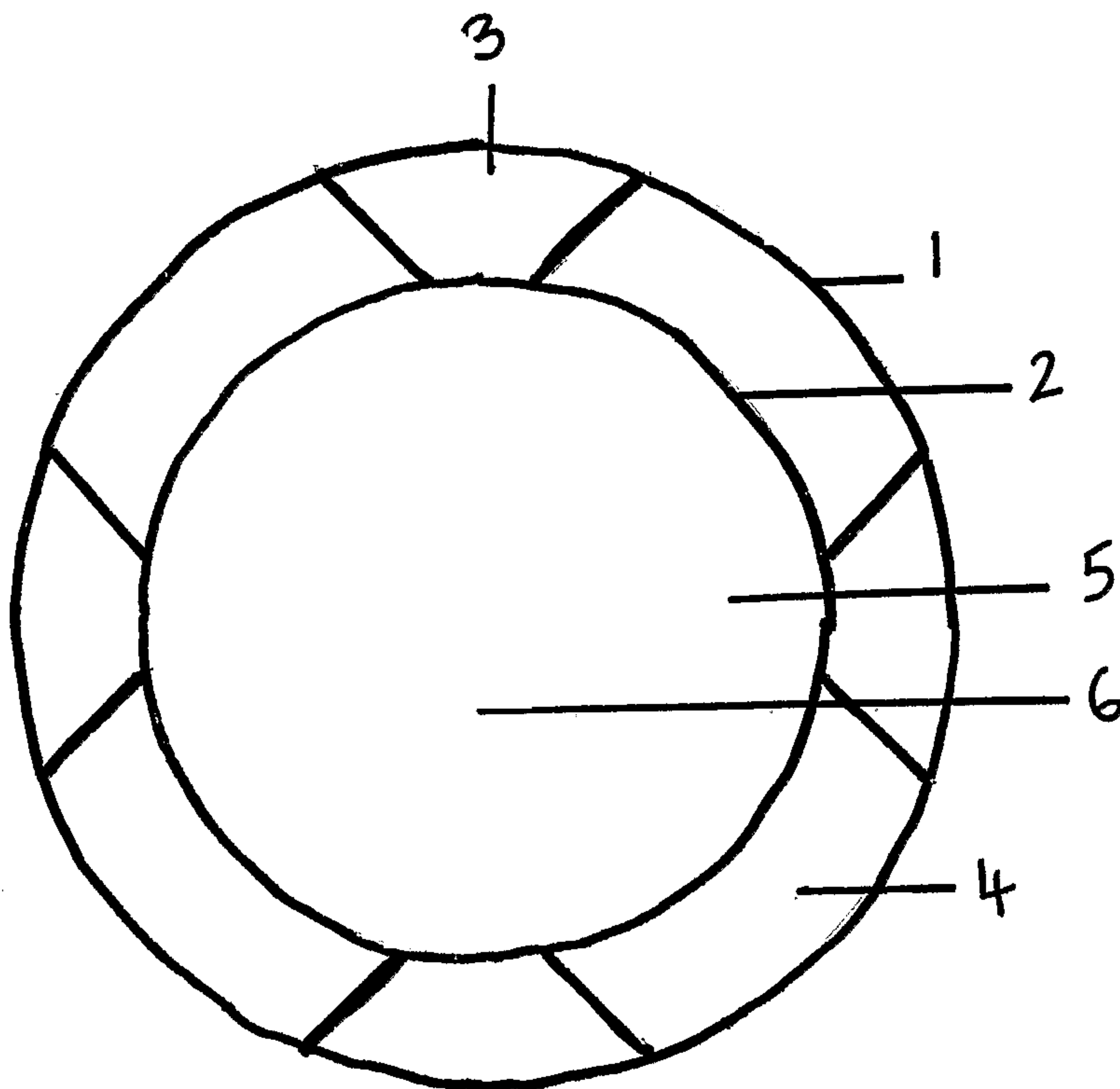
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(54) Title: SANITARY DRAINAGE DEVICE



(57) Abstract: A sanitary drainage device comprising a stainless steel vent (4) with an inner and outer rim (2, 1) and water inlets (3) which are used to direct the flow of water from a shower or the like to a sunken surface (5) where it is contained and pushed slowly to the drainage vent by the domed inner surface. This arrangement provides a certain amount of water at the upper end of the device that can be used for cleaning the surrounding surfaces of the shower cubicle or the like while at the same time passing water through the device which ensures its sanitation.

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SANITARY DRAINAGE DEVICE

This invention relates to improvements in devices for sanitising showers and surrounding facilities.

For many people a lack of time in a day to complete necessary hygienic and/or sanitary procedures can result in costly delays and increased stress. There have been many proposals to sanitise showers and surrounding facilities, many require excessive water consumption and harsh chemical cleaners.

For example one previous device proposes a flip top seat with basin and water flush to dispose of urine. These proposals have the disadvantage that massive amounts of water are used every time the device is used.

These problems are overcome by the present invention which provides a Sanivent device comprising a stainless steel vent with water inlets in four points of its circumference, this is to ensure water can be transferred to a sunken inner surface without being forced through the water outlet.

In one form of the invention the stainless steel vent comprises a sunken inner surface with a slightly domed curve in the centre to allow water to be contained and slowly released depending on the force of the flow from the surrounding source.

In another form of the invention the sunken inner surface comprises a rim slightly lower than the outer rim being the inner rim. Where between the inner and outer rim there is a vent broken in its circumference by only four inlets. This is to drain water from the shower in its entirety and allow just enough water to fill the sunken inner surface where it can be slowly vented to the surrounding drain. Such a gap may include a grill or mesh to ensure the users safety.

The vent may be made of stainless steel as with the sunken inner surface, inner rim, outer rim, water inlets and grill.

To assist with understanding the invention, reference will be made to the accompanying drawings which show one example of the invention.

In the drawings:

FIG. 1 is a perspective view of one embodiment of a Sanivent device according to this invention;

FIG. 2 is a cross-sectional view of the embodiment of the present invention taken along line 2-2 in FIG. 1;

FIG. 3 is a perspective view of an application of such a Sanivent device to the common shower drain; and

FIG. 4 is a cross-sectional of taken along line 4-4 in FIG. 3.

Referring to FIGS. 1 and 2 it can be seen that the Sanivent device according to this invention comprises an outer rim (1) with inside an inner rim (2) with drainage vents (4) punctured by water inlets (3) around its circumference, at the centre of which can be found a sunken inner surface (5) with a slight dome (6). The drainage vents (4) circumference is covered by a stainless steel grill (17) between the inner rim (2) and outer rim (1) permitting only water through the designated water inlets (3) to pass into the inner rim (2).

FIGS. 3 and 4 show the Sanivent device in operation. It can be seen that water is passed (14) through the inlet (9) into the sunken inner surface (11) where it is then pushed slowly (16) over the inner rim (8) and into the drainage vent (10) where water is moved (15) through the outer rim (7) where it joins water from the domed sunken inner surface (12) to flow from the drain (13).

It will be realized that the Sanivent device according to this invention is not restricted to a simple metal grill used to drain water from a shower shown in the example, but any drain or vent used which requires an artificial surface to be created to provide sanitary means.

What is claimed is:

1. A sanitary drainage device comprising:

an outer rim;

an inner surface featuring an inner rim, said inner surface being sunken from and central with said outer rim;

at least one drainage vent defined between said outer rim and said inner rim, said drainage vent being in direct fluid communication with an area above said inner surface, said drainage vent being configured to receive a fluid from said area above said inner surface;

a dome extending up centrally from said inner surface and having a configuration for directing a fluid away therefrom and toward said drainage vent;

at least one water inlet defined adjacent and through said inner rim and configured to pass the fluid therethrough to said inner surface, said water inlet being in direct fluid communication with said area above said inner surface; and

at least one water outlet in fluid communication with said drainage vent and said area above said inner surface.

2. The sanitary drainage device according to claim 1, wherein said inner rim being lower than said outer rim thereby allowing a fluid to pass over said inner rim and into said drainage vent.

3. The sanitary drainage device according to claim 2, wherein said inner surface, said dome,

and said inner rim are adapted to form an artificial surface of said fluid in said area above said inner surface and surrounded by said inner rim.

4. The sanitary drainage device according to claim 3, wherein said artificial surface is created by a continual flow of said fluid through said water inlet.

5. The sanitary drainage device according to claim 4, wherein said water inlet is four water inlets positioned around a periphery of said inner rim.

6. The sanitary drainage device according to claim 5, wherein said drainage vent is four drainage vents positioned around the periphery of and between said outer rim and said inner rim, wherein each of said four drainage vents being adjacent to at least one of said water inlets.

7. The sanitary drainage device according to claim 6, wherein said drainage vents are each covered by a grill between said inner rim and said outer rim permitting only said fluid from said water inlets to pass over said inner rim and into said drainage vents respectively.

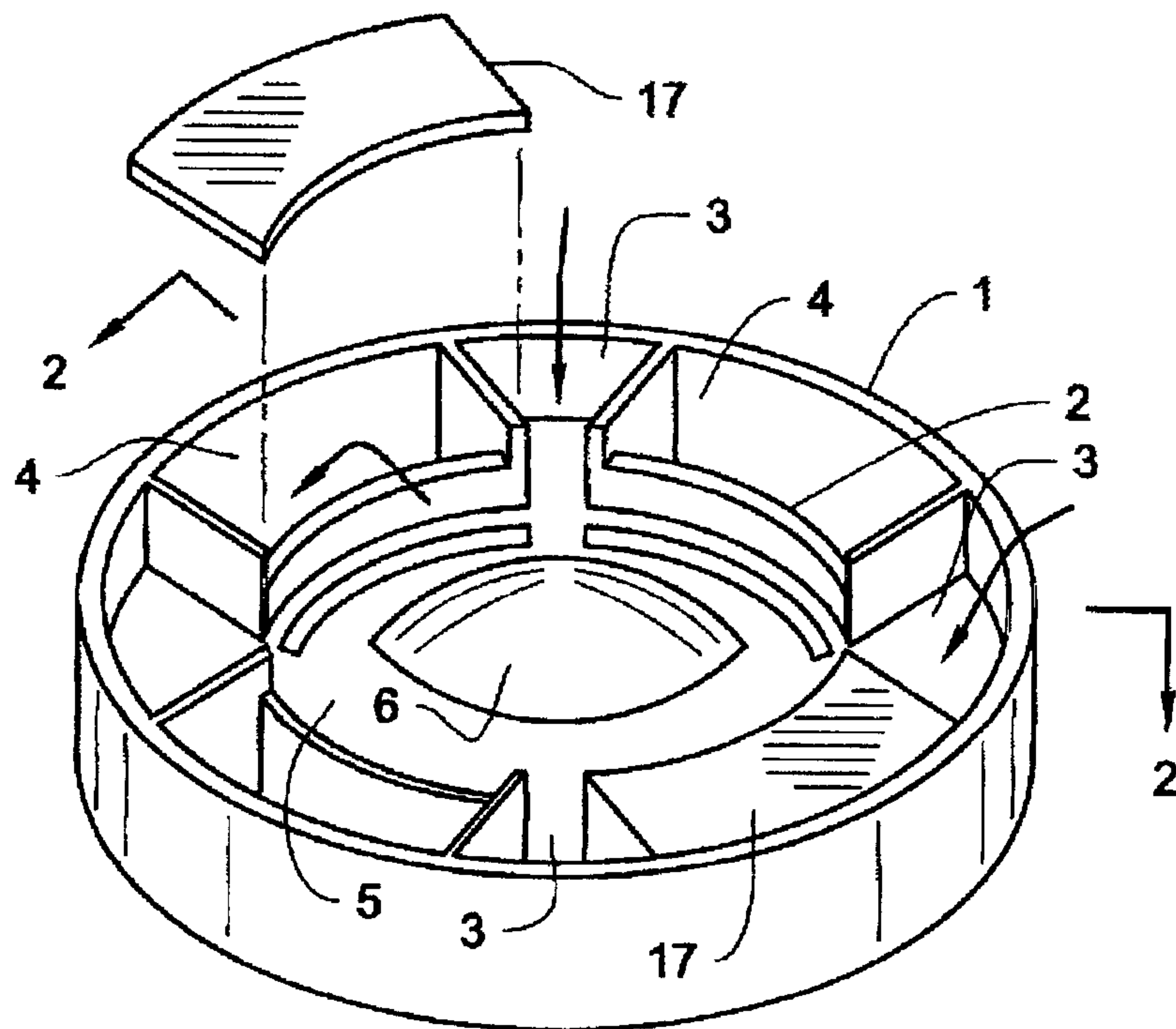


FIG. 1

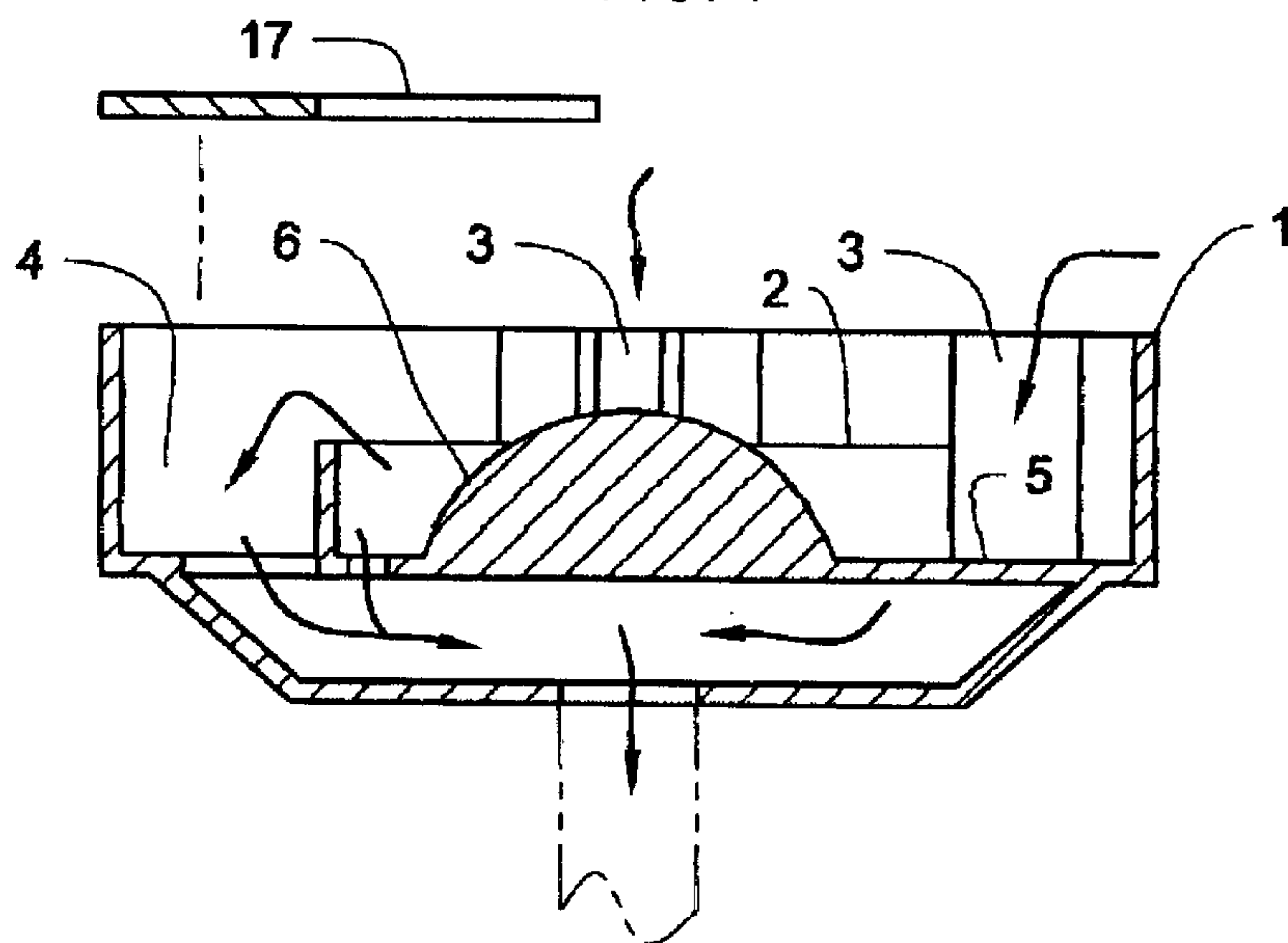


FIG. 2

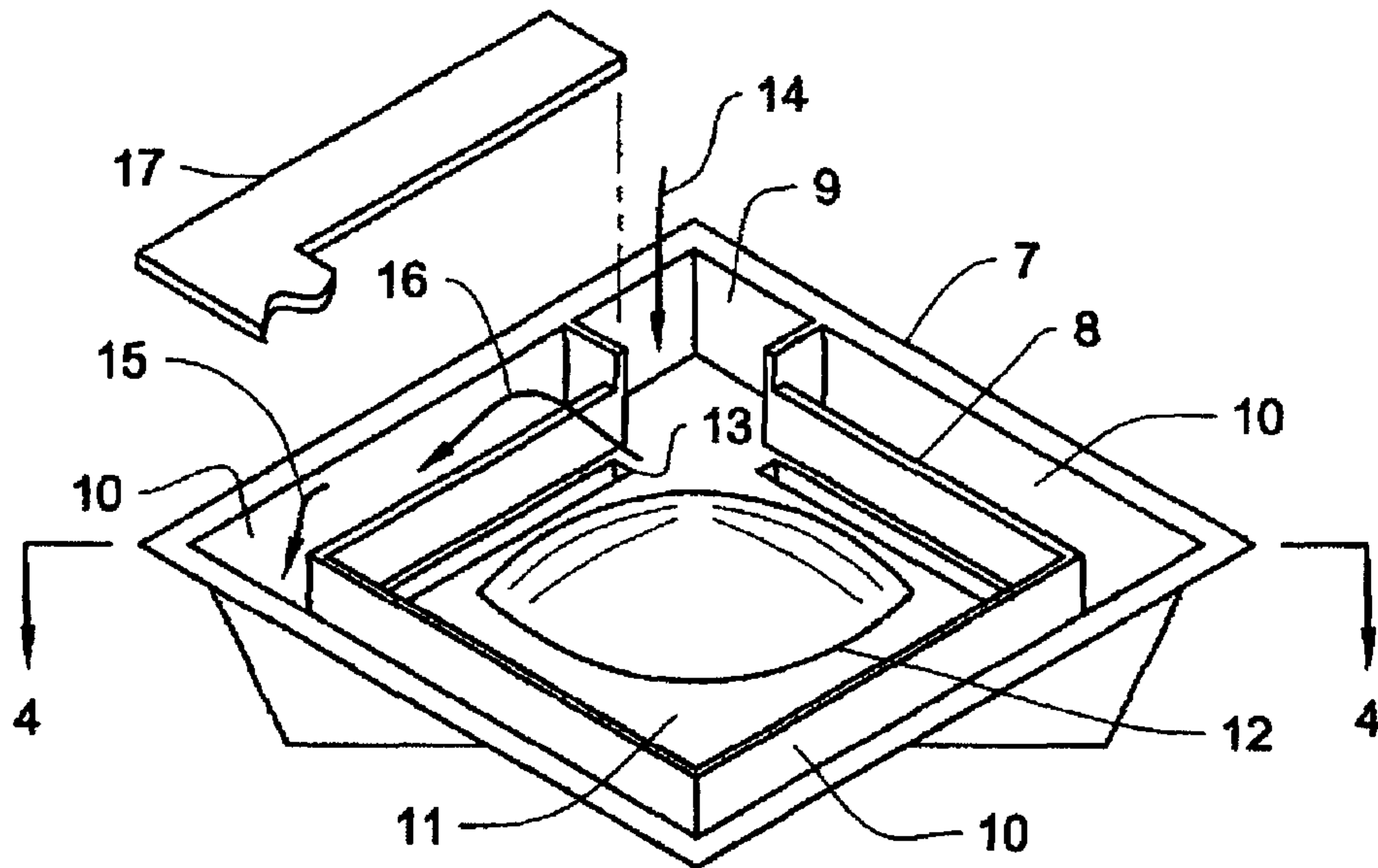


FIG. 3

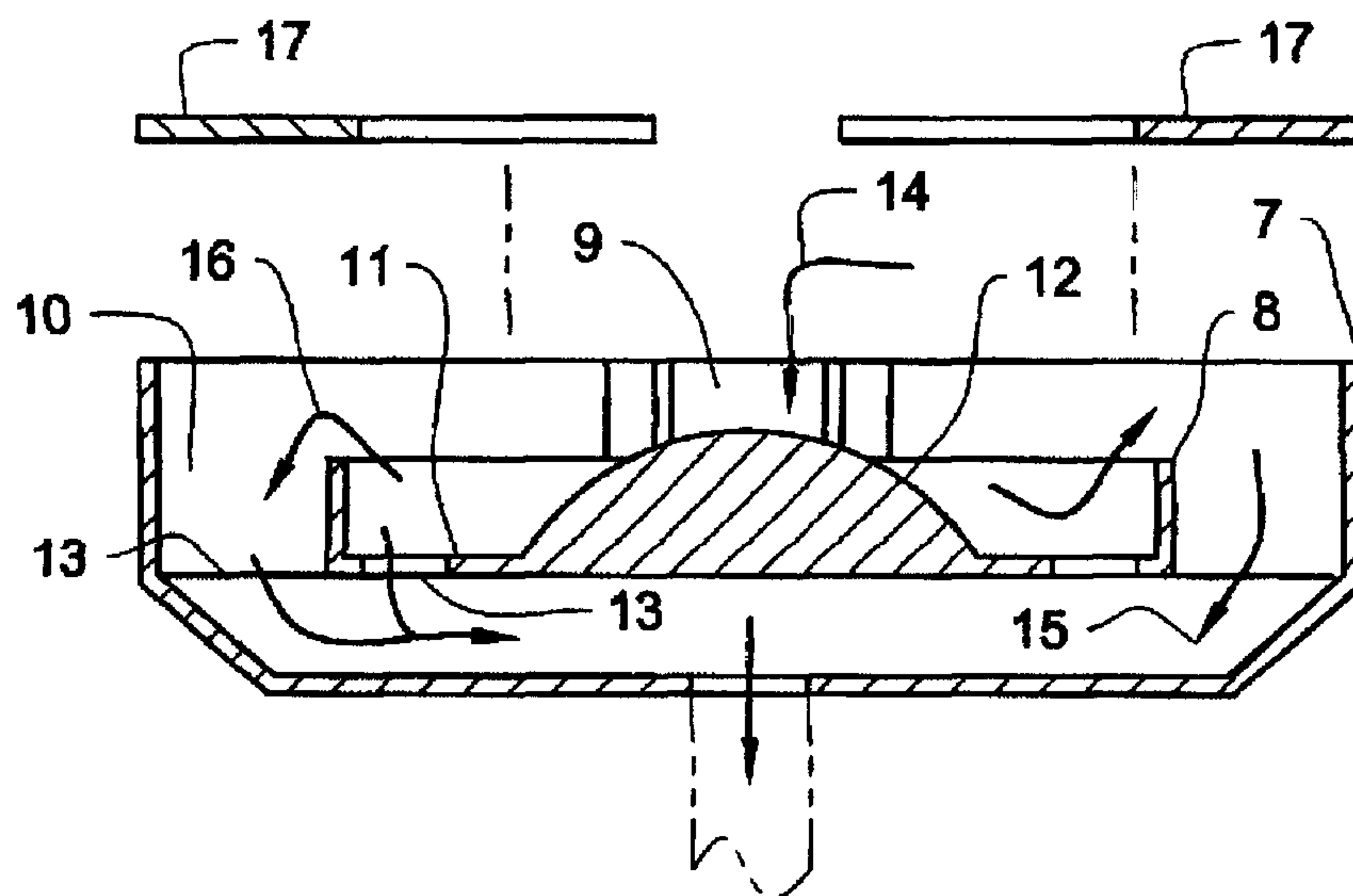


FIG. 4

