

(19) **DANMARK**

(10) **DK/EP 3464190 T3**



(12) **Oversættelse af  
europæisk patentskrift**

Patent- og  
Varemærkestyrelsen

- 
- (51) Int.Cl.: **C 25 B 3/02 (2006.01)**      **A 01 C 3/02 (2006.01)**      **C 25 B 11/03 (2006.01)**  
**B 01 D 1/30 (2006.01)**      **C 02 F 1/20 (2006.01)**      **C 02 F 1/24 (2006.01)**  
**C 02 F 1/40 (2006.01)**      **C 02 F 11/00 (2006.01)**
- (45) Oversættelsen bekendtgjort den: **2021-01-18**
- (80) Dato for Den Europæiske Patentmyndigheds bekendtgørelse om meddelelse af patentet: **2020-11-11**
- (86) Europæisk ansøgning nr.: **17751852.9**
- (86) Europæisk indleveringsdag: **2017-05-31**
- (87) Den europæiske ansøgnings publiceringsdag: **2019-04-10**
- (86) International ansøgning nr.: **IT2017000110**
- (87) Internationalt publikationsnr.: **WO2017212503**
- (30) Prioritet: **2016-06-06 IT UA20164107**
- (84) Designerede stater: **AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR**
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- (54) Benævnelse: **PRESSOSTATISK LUGTKONTROLDÆKKE TIL SLAMBEHANDLINGSBEHOLDER MED INDRETNING TIL AT REDUCERE DEN INDVENDIGE VOLUMEN OPTAGET AF SKADELIGE OG ILDELUGTENDE GASSER**
- (56) Fremdragne publikationer:  
**EP-A1- 1 516 975**  
**AT-B- 388 158**  
**DE-U1-202012 104 310**  
**GB-A- 1 586 767**



# DESCRIPTION

## Field of application

[0001] The invention falls within the field of accessory equipment for the purification of slurry.

[0002] The invention in particular concerns a pressostatic odor control cover for slurry treatment tanks, adapted to contain harmful gases and volatile odorous substances, which develop as a result of chemical-physical or biological phenomena, and provided with a system for reducing the inner volume occupied by said harmful gases and said malodorous substances.

## State of the art

[0003] It is known that in purification systems of waste of civil, industrial or animal origin, volatile substances develop and tend to be released into the atmosphere, creating problems of emissions or odors or gases harmful for the environment.

[0004] Therefore, there is the problem of preventing the spreading of unpleasant odors, above all from tanks positioned at the end of systems, such as grit and oil removal, sedimentation, flotation tanks, etc.

[0005] There is also the problem of carrying out ordinary and special maintenance on the apparatus that equip tanks.

[0006] These tanks are generally made of concrete and comprise a flat or conical bottom and vertical containment walls.

[0007] Often they are also provided with a travelling bridge scraper for the collection of sedimented and/or floating materials.

[0008] To avoid harmful gases and malodorous substances from escaping, these tanks are often covered with metal, fiberglass or membrane structures, maintained with vacuum pressure or slightly pressurized to allow the malodorous gases to be conveyed to a purification system, generally with biofilters.

[0009] The membrane covers are essentially pressostatic domes made with a gas-tight flexible membrane, generally in PVC coated polyester fabric, and provided with continuous fixing means of a margin of said membrane to the tank below.

[0010] The pressostatic covers also comprise insufflation means of pressurized air below said

membrane and discharge valve means of the air, mixed with the harmful gases and the malodorous substances, to be sent to a treatment plant.

**[0011]** The fixing means of the membrane to said tank generally comprise a steel profile adapted to retain, by means of anchor bolts and nuts, the margin of the membrane against the upper edge of said tank.

**[0012]** To cover a tank with a pressostatic cover it is necessary to follow a curved surface of a shape similar to a cone or a part of a cone, to a sphere or part of a sphere, or to a cylinder or a part of a cylinder.

**[0013]** The tensile force to which the membrane is subjected at the anchor depends both on the operating pressure of the air insufflated and contained under the dome, and on the radius of curvature of the shape selected for the cover.

**[0014]** The tensile force tangent to the membrane can be divided into two components, one vertical and one horizontal. This latter is the most problematic component in stress distribution as it can cause tears along the edge of the membrane and damages to the structure for anchoring to the tank.

**[0015]** In substance, in order to limit the stress generated by the membrane cover within values that can be supported by the membrane material and by the metal anchoring structure below, covering domes must be produced with considerable heights.

**[0016]** These pressostatic covers have some limits and drawbacks due to the fact that they subtend a large volume of air contaminated by the gases and by the odors released by slurries.

**[0017]** The contaminated air mixed with the volatile substances released from slurries contains degrading substances that can, in the long term, damage the whole membrane. Any deposits and residues of the gases and of the emissions produced by the slurries and by the waste contained in the tank can also cause breakage of the cover.

**[0018]** Unfortunately, the costs to repair or replace the whole membrane can be very high.

**[0019]** Moreover, in order to allow an operator, not wearing an oxygen mask, to access the cover to carry out maintenance operations, regulations provide that "washes" must be carried out, obtained with predetermined air change rates per hour of the volume of air present under the cover, producing vast quantities of polluted air.

**[0020]** A large volume of air polluted by harmful gases and malodorous substances to be treated by means of specific mechanical or biological filtering systems requires a substantial amount of energy and is expensive.

**[0021]** Document DE202012104310U1 discloses a biogas storage tank placed on a digester comprising a first and a second gases impermeable flexible membrane and a thermo-insulating membrane arranged between the second flexible membrane and the free surface of the sewage contained in the digester, provided along its perimeter with a number of holes for the passage of the biogas released from said sewage.

**[0022]** Document AT 388 158 B refers to a biogas storage tank comprising an upper gas-tight membrane and an underlying support layer that supports the waterproof membrane in the event of low pressure. The underlying layer has a thermal insulation function and is provided with holes for the passage of gas.

### **Presentation of the invention**

**[0023]** The object of the present invention is to eliminate the problems described herein and to produce a pressostatic odor control cover for slurry treatment tanks provided with a device for reducing its inner volume for containing the gases, to protect the membrane from deterioration caused by the degrading substances produced and to facilitate operations to change the air, to treat the polluted air and thus allow operators to access the tank to carry out maintenance operations without having to remove the cover.

**[0024]** The objects are achieved with a pressostatic odor control cover for slurry treatment tank with device for reducing the inner volume occupied by harmful and malodorous gases emitted from the surface of the slurry, where said treatment tank is delimited by a base and by lateral containment walls, where said pressostatic odor control cover comprises:

- a gas impermeable flexible membrane;
- gas-tight continuous fixing means of a margin of said membrane to said tank;
- insufflation means of air inside said cover;
- discharge valve means of said air out of said cover;

characterized in that:

- said odor control cover also comprises a diaphragm permeable to liquids and to gases, wherein said diaphragm comprises a fine mesh net and is arranged below said flexible membrane and fixed to it to delimit a reduced volume of said odor control cover available to the harmful gases and to the malodorous substances released from the slurry, dividing the volume subtended by the pressostatic odor control cover into two separate chambers, wherein the upper chamber is delimited by the top of the membrane and by the diaphragm, and the lower chamber is delimited by the diaphragm, by the lower portion of the membrane and by the free surface of the slurry contained in the tank;
- said air insufflation means are connected to said cover above said diaphragm;
- said discharge valve means are connected to said cover below said diaphragm,

wherein said insufflation means are suitable to insufflate new air in said upper chamber so as to maintain the upper chamber at a slightly higher pressure than the lower chamber and thus prevent the passage of polluted air from the lower chamber to the upper chamber.

**[0025]** According to a first aspect of the invention, said cover comprises mechanical fixing means, not air-tight, for fixing said diaphragm to said membrane.

**[0026]** In a preferred variant of the invention, said mechanical fixing means are of point type, distributed along the edge of said diaphragm, and in particular comprise eyelets welded to said membrane and tapes, at least partially covered in Velcro® adapted to fold over themselves and to engage said eyelets passing through a portion of the edge of said diaphragm.

**[0027]** According to a further aspect of the invention, said mechanical fixing means also comprise connection means substantially of continuous type, which extend along the edge of said diaphragm, and in particular comprise a strip of hooks of Velcro® applied along a horizontal plane of said cover, and a strip of loops applied along the edge of said diaphragm.

**[0028]** Advantageously, said cover comprises pipes, arranged transverse to said diaphragm along its edge, adapted to define through holes, to allow the insufflated air to flow under said diaphragm.

**[0029]** Moreover, said fixing means comprise at least a supporting rope fixed at one end to the top of said membrane and at the other end to said diaphragm in a central portion thereof.

**[0030]** In a particularly preferred variant, said cover comprises access means to the inside thereof and a walkway arranged in a cantilever fashion along the perimeter edge of the containment walls of said tank, on the outside thereof, adapted to define a walkable surface, where said walkway comprises a delimiting external railing and said continuous fixing means of said flexible membrane are arranged both on the top of said external railing, and on the vertical walls of the tank below said walkway.

**[0031]** The current invention presents numerous advantages.

**[0032]** The diaphragm separates the volume subtended by the cover into two chambers, a lower chamber and an upper chamber, and advantageously maintains the harmful gases and the malodorous substances emitted from the surface of the slurry confined only in the lower chamber.

**[0033]** In this way, the volume of polluted air remains limited and, if the lower chamber must be "washed" to allow operators to access the inside of the cover, the amount of energy and the time required would be greatly reduced.

**[0034]** Advantageously, said diaphragm is produced by means of a very light net with a sufficiently fine mesh to itself create a loss of load for the insufflated air and simultaneously to

allow any humidity caused by condensation to precipitate onto the slurry without making the net heavier.

**[0035]** The point type continuous fixing means along the edge of the diaphragm allow it to be maintained in position, while providing through holes for specific and suitable amounts of clean air.

**[0036]** Advantageously, these through holes for the air, produced by means of transverse pipes, are calibrated so as to allow the insufflated air to flow downward with a slight loss of load, thereby generating a difference in pressure between the chamber positioned above the diaphragm (at a higher pressure) and the chamber positioned below the diaphragm, where the polluted air to be treated is confined.

**[0037]** The calibrated openings positioned along the edge of the diaphragm distribute the clean air evenly around the perimeter of the tank above any walkable surface, to ensure the operator receives a flow of prevalently clean air.

**[0038]** The walkway arranged in a cantilever fashion along the perimeter edge of the tank, but enclosed inside the cover, in fact produces an advantageous walkable corridor for the passage of the operators, who can thus access and remain inside the cover to carry out maintenance operations and inspections, without having to remove the membrane.

**[0039]** The supporting ropes with which the diaphragm is hung from the membrane in its central portion prevent the formation of concavities, folds and loops in which condensate could accumulate, making the diaphragm heavier with the risk of tearing it.

#### **Brief description of the drawings**

**[0040]** These and other advantages will be more apparent and evident from the description of the invention, set forth below with the aid of the drawings, which represent an example of embodiment, illustrated by way of non-limiting example, wherein:

Fig. 1 represents, in a sectional view along a vertical plane, a pressostatic odor control cover for slurry treatment tank with device for reducing the inner volume occupied by the harmful and malodorous gases according to the invention;

Figs. 2 and 3 represent, in a sectional view along two different diametrical vertical planes, a pressostatic odor control cover according to a possible variant of embodiment of the invention;

Fig. 4 represents, in a sectional view along a horizontal plane, the cover of Figs. 2 and 3.

Figs. 5 and 6 represent two details respectively of the sectional views of Fig. 4 and Fig. 2;

Fig. 7 represents, in a vertical sectional view with proportions intentionally deformed for clarity

of representation, a part of the pressostatic odor control cover according to a possible variant of the invention;

Figs. 8 and 9 represent, in a sectional view, details of Fig. 7.

### **Detailed description of a preferred example of embodiment of the invention**

**[0041]** With reference to the figures, there is illustrated a pressostatic odor control cover 1 for slurry L treatment tank 2, for example a sedimentation tank containing a liquid rich in fermentable organic substances.

**[0042]** Said sedimentation tank 2, having a circular shape, consists of a base 2' and of a lateral containment wall 2" and is closed at the top by said odor control cover 1.

**[0043]** Said odor control cover 1 essentially comprises a gas impermeable flexible membrane 4, adapted to cover the surface of said tank 2, and continuous fixing means 4' of said membrane 4 to said tank.

**[0044]** Said odor control cover 1 is of pressostatic type and comprises insufflation means 5 of air inside it and discharge valve means 6 of said air upon reaching a predetermined pressure value, obtainable by means of calibrating said valve means 6.

**[0045]** Said cover 1 comprises a diaphragm 7 permeable to liquids and to gases, arranged below said membrane 4 to delimit, cooperating with the membrane 4 and the surface of the slurry L contained in said tank 2, a reduced volume available to the harmful gases and to the malodorous substances released from the slurry.

**[0046]** In particular, said diaphragm 7 divides the volume subtended by the cover 1 into two separate chambers A, B.

**[0047]** The upper chamber A, delimited by the top of the membrane 4 and by the diaphragm 7, contains clean air maintained pressurized by the continuous insufflation of fresh air from outside.

**[0048]** The lower chamber B, delimited by the diaphragm 7, by the lower portion of the membrane 4 and by the free surface of the slurry L contained in the tank 2, contains polluted air, i.e., mixed with gases released from the slurries and with malodorous substances or emissions produced by the treated slurries and by the sedimented material.

**[0049]** With reference to the particular variant illustrated in Figs. 2 and 3, said tank 2 also comprises a travelling bridge scraper 13 arranged along a diameter thereof, and said cover 1

comprises a walkway 14 arranged in a cantilever fashion along the perimeter edge of said tank 2, on the outside thereof.

**[0050]** Said travelling bridge scraper 13 is adapted to help the sedimented materials to reach the central well for their removal, and to facilitate discharge of foam and floating material.

**[0051]** Said walkway 14 is adapted to define a walkable surface P for the operators during inspections and maintenance operations.

**[0052]** To make said cover 1 accessible to the operators, and thus allow them to reach said walkway 14, said cover 1 is provided with an airlock 3 with two doors, of the type generally used for the pressostatic covers of sport domes.

**[0053]** With particular reference to Figs. 4 and 5, where the membrane has been made transparent for clarity of representation, there is illustrated said diaphragm 7 permeable to liquids, produced by means of a fine mesh net. In the figures, the mesh of the net has been deformed for clarity of representation, but its holes are of sufficiently small size to produce a loss of load that maintains the upper chamber A at a slightly higher pressure than the lower chamber B and thus prevents polluted air from passing from the lower chamber B to the upper chamber A.

**[0054]** To ensure the correct value between internal pressures in the two chambers A, B, so as to maintain the harmful gases confined below the diaphragm 7, said insufflation means 5 of air are connected above said diaphragm 7, while said discharge valve means 6 are connected below it and are appropriately calibrated.

**[0055]** By way of example, for a tank 2 with a diameter of 45 meters, said diaphragm 7 is fixed to the membrane 4 at a height of about 3 meters with respect to the edge of the tank 2, and the discharge valve means 6 of the polluted air draw the air at the side of the cover 1 with outlets positioned under the diaphragm 7 at about 1 meter from the edge of the tank 2.

**[0056]** The cover 1 comprises various mechanical fixing means of said diaphragm 7 to said membrane 4, not air-tight, illustrated in the detail of Figs. 5 and 6.

**[0057]** First mechanical fixing means are of point type and are distributed angularly at equal distances from one another, along the edge 7' of said diaphragm 7.

**[0058]** In particular, said first mechanical fixing means comprise eyelets 8 welded to said membrane 4 and tapes 9, at least partially covered in Velcro®, adapted to fold over themselves and to engage said eyelets 8 passing through a portion of the edge of the net that produces said diaphragm 7.

**[0059]** Second mechanical fixing means are instead of substantially continuous type, and involve the whole of the edge 7' of said diaphragm 7.

**[0060]** In fact, said diaphragm 7 has a larger diameter than the diameter of the covering dome 1 measured at its connection circumference. In this way, the edge strip of the diaphragm 7 in excess produces a sort of apron 7" that can be closed continuously along the membrane 4.

**[0061]** In particular, said second mechanical fixing means comprise a strip of loops of Velcro® 10' applied along the edge strip 7" of said diaphragm 7 and adapted to cooperate with a corresponding strip of hooks of Velcro® 10" applied to said membrane 4 at the height of said diaphragm 7.

**[0062]** Once the edge strip 7" of the diaphragm 7 has been closed along a circumference of the dome, it is however necessary to provide through holes for clean air to pass from the upper chamber A to the lower chamber B, so as to prevent the porosity of the net from changing over time and no longer being sufficient to allow clean air to pass through with a minimum loss of load.

**[0063]** Said through holes are produced by means of pipes 11, arranged transverse to said diaphragm 7 so as to pass through it.

**[0064]** Advantageously, said pipes 11 are distributed close to the edge 7' of the diaphragm 7, or along the circumference of the sedimentation tank 2, above the walkway 14 for the operators.

**[0065]** Finally, as illustrated in the sectional views of Figs. 2 and 3, said cover 1 comprises third mechanical fixing means.

**[0066]** Said third fixing means comprise supporting ropes 12 hung from said membrane 4 and fixed in the central portion of said diaphragm 7.

**[0067]** With particular reference to Figs. 7-9, there is illustrated a variant of the cover 1 according to the invention provided with a walkway 14 for the operators.

**[0068]** Said walkway 14, made entirely of stainless steel to withstand the aggression of chemical agents released by the slurry, comprises:

- a ring-shaped horizontal platform 16;
- a plurality of vertical uprights 17, arranged equidistant from one another and fixed along the outer edge of said platform 16, which extend above it;
- a plurality of supporting struts 18 for said horizontal platform 16;
- an upper connecting beam 19 for said vertical uprights 17.

**[0069]** In the variant illustrated, the flexible membrane 4 is mechanically and hermetically anchored to the tank 2 in two points, i.e., at the top of the vertical uprights 17 of the walkway

14, along the connecting beam 19, and along the lateral containment wall 2" of the tank.

**[0070]** In particular, the margin 4' of the membrane 4 is fixed directly, by means of first fixing means, to the connecting beam 19 of the vertical uprights 17 of the walkway 14, and said membrane 4 comprises an extension strip 24, adapted to close the space between the vertical uprights 17 of the walkway 14 and to be fixed, by means of second fixing means, along the wall 2" of the tank 2.

**[0071]** With reference to the sectional view of the detail of Fig. 8, said first fixing means comprise a first steel section bar 20, adapted to retain, by means of anchor bolts 21' and nuts 22', the margin 4' of said membrane 4 to said beam 19.

**[0072]** With reference to the sectional view of the detail of Fig. 7, there is illustrated the extension strip 24 of the membrane 4 adapted to fill the space between the vertical uprights 17 of the walkway 14 and to close said cover 1 on the lateral containment wall 2" of the tank 2.

**[0073]** A first edge 24' of said strip 24 is retained by said first section bar 20 on the connecting beam 19 of the uprights 17.

**[0074]** Said second fixing means, as illustrated in Fig. 9, comprise a second steel section bar 23 adapted to retain, by means of anchor bolts 21" and nuts 22", a second edge 24" of said strip 24 on the wall 2" of the tank 2.

**[0075]** Any folds S of the margin 4' of the membrane 4 and of the edges 24', 24" of the strip 24 on a cord produce a tear-proof structure.

**[0076]** To ensure perfect pneumatic seal of the odor control cover 1, said cover 1 comprises double gas-tight sealing means, i.e. two gaskets 15' and 15" provided below said membrane 4, respectively against said beam 19, at said first fixing means, and against said lateral containment wall 2", at said second fixing means.

**[0077]** With reference to the sectional view of Fig. 7, said cover 1 comprises a condensation liquid collection channel.

**[0078]** Said channel is produced by means of a perforated pipe 25 provided at said second fixing and sealing means along the lateral containment wall 2" of said tank 2 below said walkway 14.

**[0079]** Ducts 26 are provided along said perforated pipe for discharge and disposal of the condensate collected.

**[0080]** Said ducts 26 are provided with specific manually or automatically operated valve means (not illustrated) to prevent the escape, even minimum, of gases and odors.

[0081] Operation of the pressostatic odor control cover is described below.

[0082] The insufflation means of air 5 continuously feed clean air into the upper chamber A of the cover 1.

[0083] The clean air passes from the upper chamber A to the lower chamber B mainly through the pipes 11, which offer less resistance to the passage of the air with respect to the mesh of the net, in any case generating a certain loss of load which determines a slightly higher pressure in the chamber A with respect to the chamber B.

[0084] Passing into the chamber B the air mixes with the harmful gases and the malodorous substances released from the slurries.

[0085] The polluted air is then emitted from the chamber B through the discharge valve means 6, which in turn introduce a further loss of load.

[0086] Calibration of the discharge valve means 6 determines the operating pressure of the chamber B and of the chamber A, and the flow rate of the air insufflation means 5.

## **REFERENCES CITED IN THE DESCRIPTION**

This list of references cited by the applicant is for the reader's convenience only. It does not form part of the European patent document. Even though great care has been taken in compiling the references, errors or omissions cannot be excluded and the EPO disclaims all liability in this regard.

### **Patent documents cited in the description**

- DE202012104310U1 [0021]
- AT388158B [0022]

**Patentkrav**

1. Pressostatisk lugtkontroldekke (1) til slam (L) -behandlingsbeholder (2) med indretning til at reducere den indvendige volumen optaget af skadelige og ildelugtende gasser afgivet fra overfladen af slammet (L), hvor nævnte 5 behandlingsbeholder (2) er afgrænset af en base (2') og af laterale inddæmningsvægge (2''), hvor nævnte pressostatiske lugtkontroldekke (1) omfatter:

- en gasimpermeabel fleksibel membran (4);
- 10 - gastætte kontinuerlige fastgørelsesorganer af en margen (4') af nævnte membran (4) til nævnte beholder (2);
- indblæsningsorganer (5) af luft inden i nævnte dække (1);
- udledningsventilorganer (6) af nævnte luft ud af nævnte dække (1);

**kendetegnet ved, at:**

- 15 - nævnte lugtkontroldekke (1) også omfatter et diafragma (7) permeabelt for væsker og for gasser, hvor nævnte diafragma (7) omfatter et fintmasket net og er anbragt under nævnte fleksible membran (4) og fastgjort til den for at afgrænse en reduceret volumen af nævnte lugtkontroldekke (1) tilgængeligt for de skadelige gasser og for de ildelugtende substanser frigivet fra slammet, inddeling af volumenen 20 liggende på den modsatte side af det pressostatiske lugtkontroldekke (1) i to separate kamre (A, B), hvor det øvre kammer (A) er afgrænset af toppen af membranen (4) og af diafragmaet (7), og det nedre kammer (B) er afgrænset af diafragmaet (7), af den nedre del af membranen (4) og af den frie overflade af slammet (L) indeholdt i beholderen (2);
- 25 - nævnte luftindblæsningsorganer (5) er forbundet til nævnte dække (1) over nævnte diafragma (7);
- nævnte udledningsventilorganer (6) er forbundet til nævnte dække (1) under nævnte diafragma (7),

hvor nævnte indblæsningsorganer er egnede til at indblæse ny luft i nævnte øvre 30 kammer (A) for således at opretholde det øvre kammer (A) ved et let højere tryk end det nedre kammer (B) og derved forhindre gennemgangen af forurenede luft fra det nedre kammer (B) til det øvre kammer (A).

2. Pressostatisk lugtkontroldekke (1) ifølge krav 1, **kendetegnet ved, at** det omfatter mekaniske fastgørelsesorganer (8, 9, 10', 10", 12) af nævnte diafragma (7) til nævnte membran (4), ikke lufttætte.
- 5 **3.** Pressostatisk lugtkontroldekke (1) ifølge krav 2, **kendetegnet ved, at** nævnte mekaniske fastgørelsesorganer er af punkttype, fordelt langs en kant (7') af nævnte diafragma (7).
- 10 **4.** Pressostatisk lugtkontroldekke (1) ifølge krav 3, **kendetegnet ved, at** nævnte mekaniske fastgørelsesorganer omfatter øjne (8) svejset til nævnte membran (4) og bånd, (9) mindst delvist dækket i Velcro®, indrettet til at folde over sig selv og til at indgribe nævnte øjne (8) der passerer igennem en del af kanten (7') af nævnte diafragma (7).
- 15 **5.** Pressostatisk lugtkontroldekke (1) ifølge krav 4, **kendetegnet ved, at** nævnte mekaniske fastgørelsesorganer omfatter forbindelsesorganer i alt væsentligt af kontinuerlig type, som strækker sig langs kanten (7') af nævnte diafragma (7).
- 20 **6.** Pressostatisk lugtkontroldekke (1) ifølge krav 5) **kendetegnet ved, at** nævnte mekaniske fastgørelsesorganer omfatter en strimmel af hægter af Velcro® (10") påført langs et horisontalt plan af nævnte dekke (1), og en strimmel af løkker af Velcro® (10') påført langs kanten (7') af nævnte diafragma (7).
- 25 **7.** Pressostatisk lugtkontroldekke (1) ifølge krav 5, **kendetegnet ved, at** omfatte rør (11), anbragt på tværs af nævnte diafragma (7) langs dets kant (7'), indrettet til at definere gennemgående huller for at tillade den indblæste luft at strømme under nævnte diafragma (7).
- 30 **8.** Pressostatisk lugtkontroldekke (1) ifølge krav 2, **kendetegnet ved, at** nævnte fastgørelsesorganer omfatter mindst et støttere (12) fastgjort ved en

ende til toppen af nævnte membran (4) og ved den anden ende til nævnte diafragma (7) i en central del deraf.

**9.** Pressostatisk lugtkontroldekke (1) ifølge krav 1, **kendetegnet ved, at** det omfatter adgangsorgan (3) til det indvendige deraf og en løbebro (14) anbragt på en cantilever-måde langs perimeterkanten af inddæmningsvæggene (2") af nævnte beholder (2), på det udvendige deraf, indrettet til at definere en gangbar flade (P), hvor nævnte løbebro (14) omfatter et udvendigt gelænder og nævnte gastætte kontinuerlige fastgørelsesorganer af nævnte fleksible membran (4) til nævnte beholder (2) er anbragt både oven på nævnte udvendige gelænder, og på de vertikale vægge (2") af beholderen (2) under nævnte løbebro (14).

DRAWINGS

Fig. 1

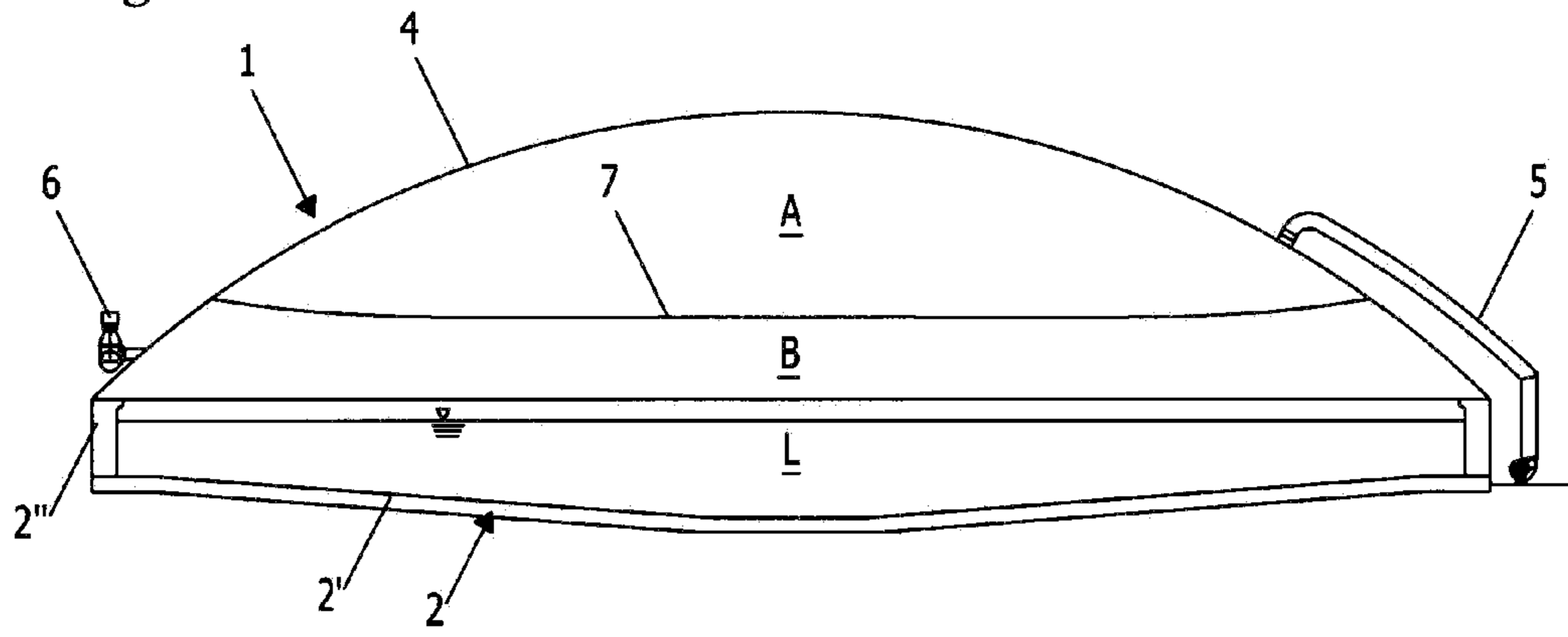


Fig. 2

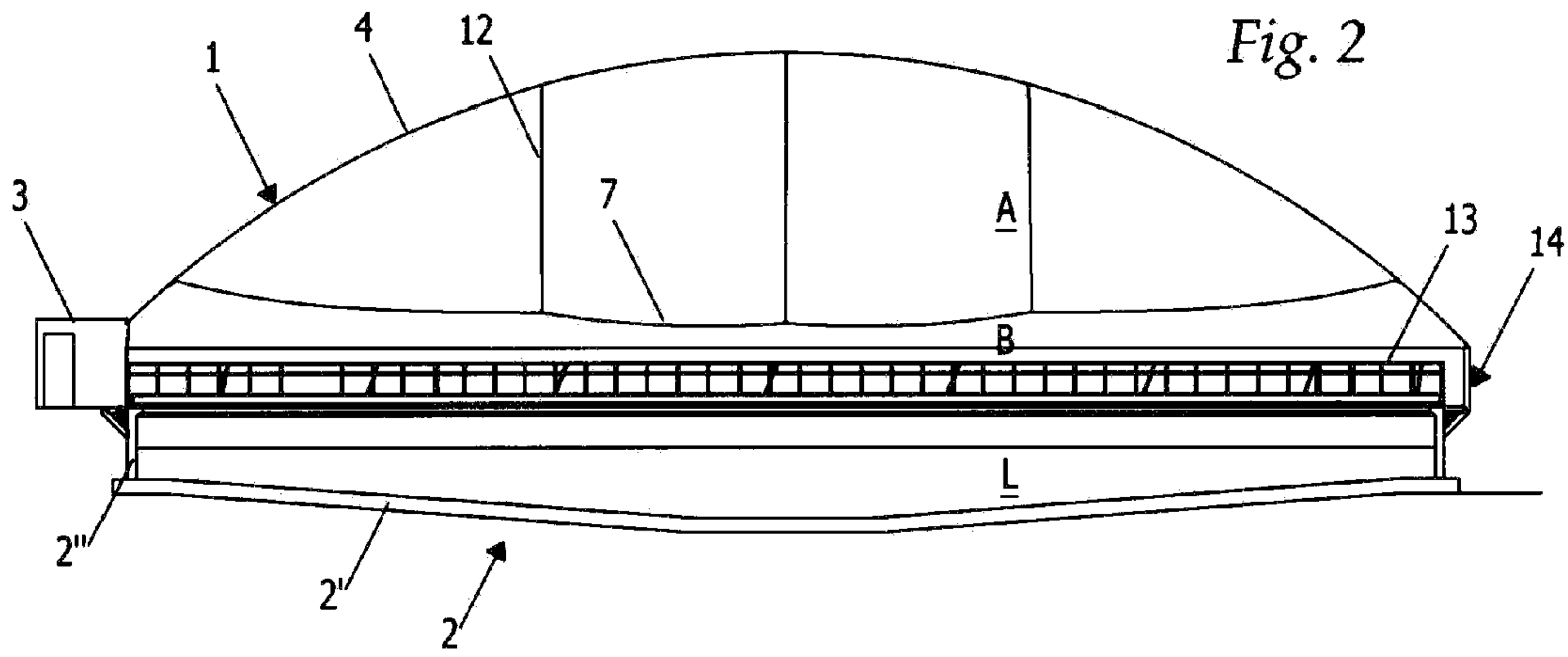


Fig. 3

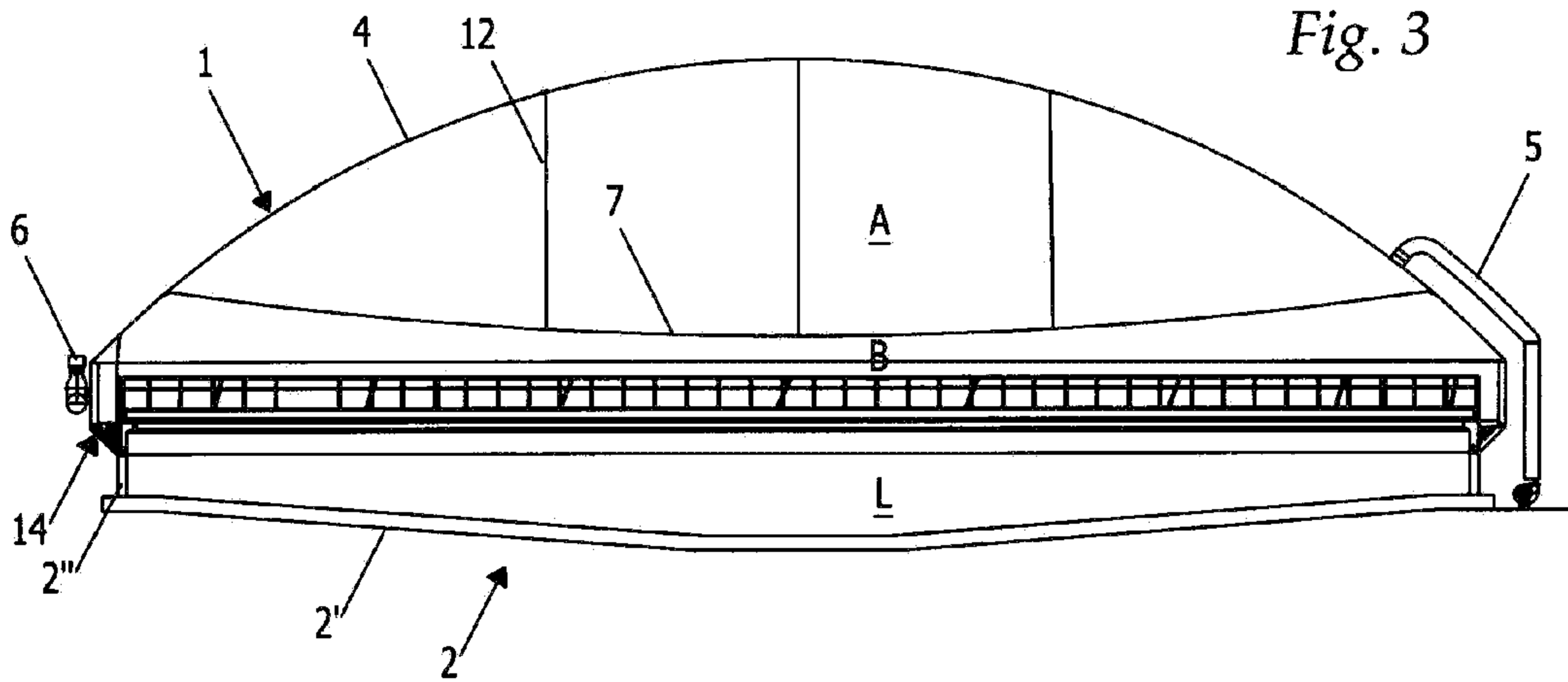


Fig. 4

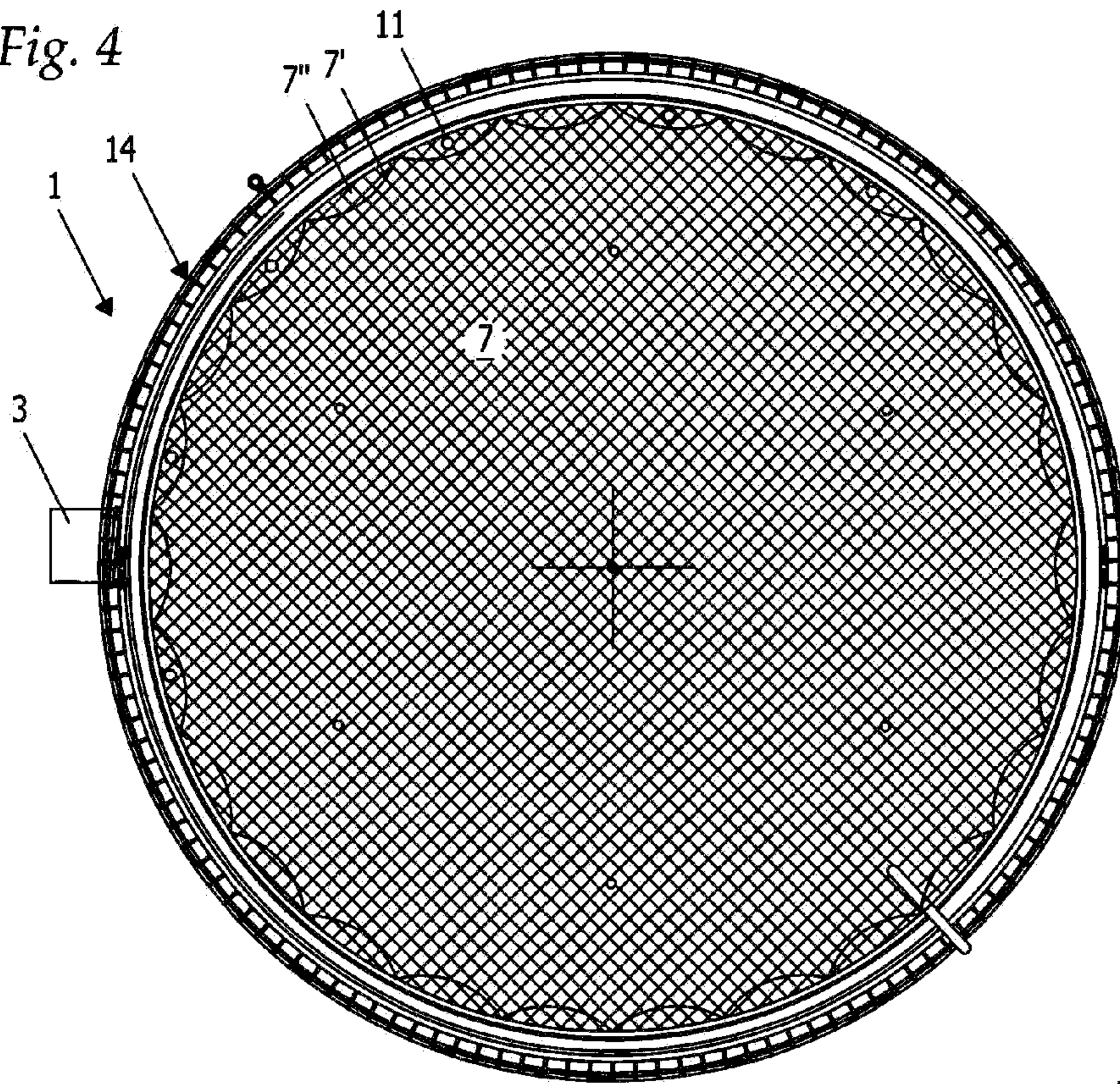


Fig. 5

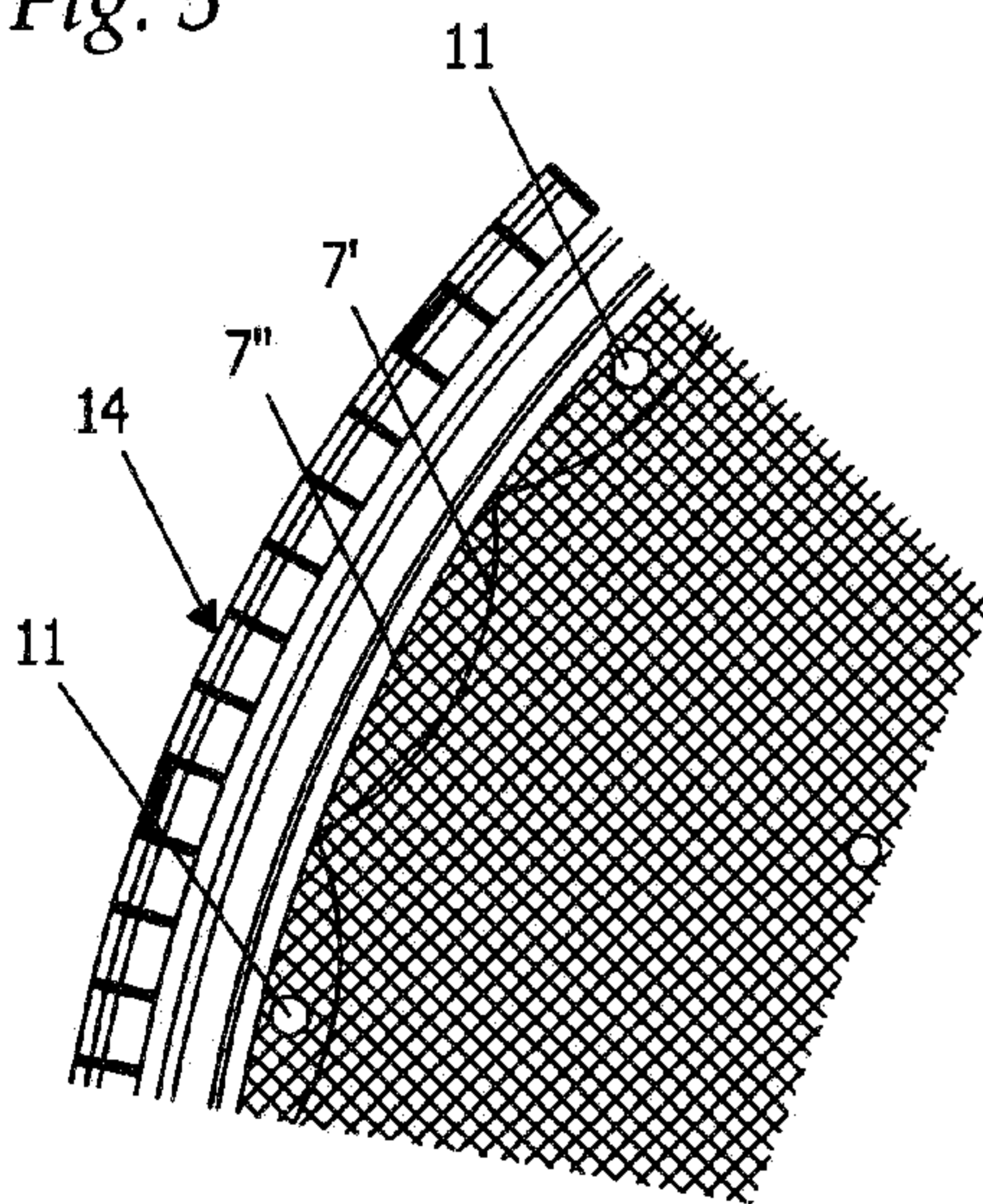


Fig. 6

