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(54) **TEAPOT CAPABLE OF PREVENTING TEAPOT LID FROM FALLING OFF**

(57) A teapot capable of preventing the teapot lid from falling off, which has the teapot lid provided with a chute and the teapot body provided with a sliding protrusion on the inner wall. The chute forms an angle with respect to the central axis of the sliding protrusion, preventing the teapot lid from being displaced relative to the teapot mouth. When the user pours tea from the teapot, the teapot lid will not fall off or spill due to tipping or slight collision. On the contrary, when the tea pouring process is finished, the user can gently turn the teapot lid with his hand, and at the same time drive the chute to leave the sliding protrusion, and the teapot lid can leave the teapot mouth.

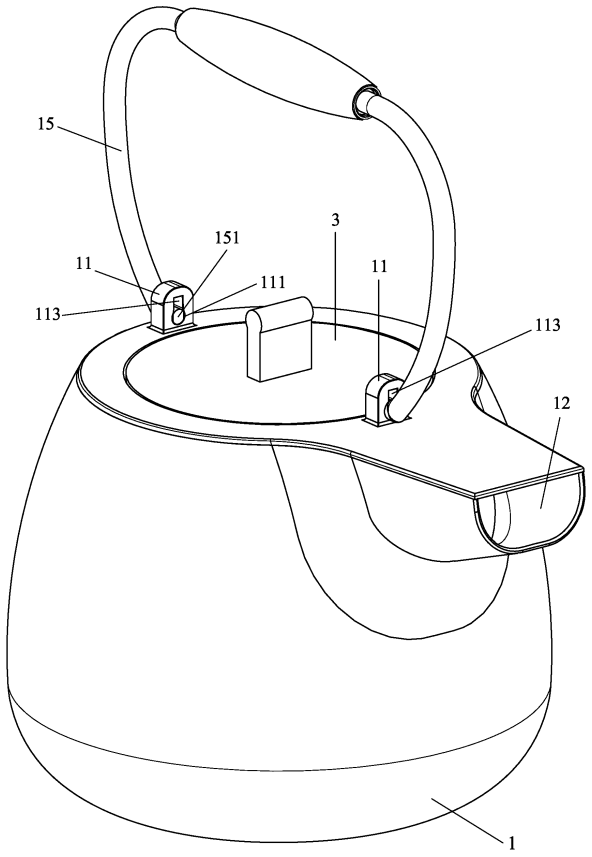

Fig. 1

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Description

BACKGROUND OF THE INVENTION

1. Field of the Invention:

[0001] The present invention relates to a teapot structure, in particular to a teapot that can prevent the teapot lid from falling off.

2. Description of the Related Art:

[0002] During the pouring process, the teapot needs to be tilted in the pouring direction so that the tea in the teapot can flow out, so the teapot body and the teapot lid have a certain tilt angle. Therefore, during the process of pouring tea, the teapot lid needs to be pressed down by external force to prevent the teapot lid from being separated from the teapot body during the process of pouring tea. However, users often forget to press down the teapot lid, causing the lid to fall off and break, and the tea to overflow from the mouth of the teapot and splash everywhere. Also, if the tea brewed in the teapot is at a high temperature, pressing down the lid of the teapot while pouring the tea can easily cause burns.

[0003] There are some existing products for preventing the lid of a teapot from falling off. Generally, buckles and slots are provided on the lid of the teapot and the mouth of the teapot. When operating, the user needs to fix the lid of the teapot by rotating the buckle with the hand force to achieve the problem of closing the lid of the teapot and the mouth of the teapot.

[0004] Some known teapots have handles that can be movably placed on both sides for storage. When pouring tea, the user holds the handle to pour tea, and the connection between the handle and the teapot is loose, causing the handle to shake left and right, resulting in the user holding the handle to pour tea and shaking left and right unsteadily.

SUMMARY OF THE INVENTION

[0005] The invention is to overcome or at least solve the problems existing in the prior art. The invention provides a teapot with a lid that can prevent the lid from falling off, the tea from spilling, and the person from getting burned during the process of pouring tea.

[0006] The invention also provides a teapot with a teapot lid that can prevent the lid from falling off. The lid can be automatically rotated and slid into the mouth of the teapot by gravity to close the lid.

[0007] The teapot capable of preventing the lid from falling off of the present invention comprises a teapot body and a teapot lid. The teapot body comprises a teapot mouth, a teapot spout, a teapot inner wall and a first sliding protrusion. The first sliding protrusion protrudes from one side of the teapot inner wall. The teapot lid comprises a teapot lid top and a teapot lid wall. The teapot lid wall comprises a bottom edge and a first chute. The teapot lid wall extends downward from one side of the teapot lid top to a height such that a free end of the teapot lid wall forms the bottom edge. The bottom edge is obliquely opened toward the teapot lid wall to form the first chute. The first chute forms a first opening at a free end on one side of the bottom edge. The first chute forms a first bottom edge on an opposite side relative to the first opening. The first chute is movably rotated and slid onto the first sliding protrusion by utilizing the first opening, and the first sliding protrusion is movably clamped on the first bottom edge, so that the teapot lid is detachably covered on the teapot mouth of the teapot body.

[0008] Compared with the prior art, the teapot of the present invention can prevent the teapot lid from falling off, prevent the tea from spilling, and prevent burns during the process of pouring tea.

[0009] According to some embodiments of the teapot capable of preventing the teapot lid from falling off, the number of the sliding protrusions can be 2 or more, and the number of the chutes is correspondingly two or more. The combination of a plurality of sliding protrusions and a plurality of correspondingly adapted chutes can provide the teapot lid and the teapot mouth with a better fixing effect in multiple directions.

[0010] The teapot body further comprises a second sliding protrusion protruding from the other side of the teapot inner wall. The teapot lid further comprises a second chute, and the other side of the bottom edge is obliquely opened toward the teapot lid wall to form the second chute. The second chute forms a second opening at the free end on the bottom edge side. A second bottom edge is formed on the other side of the second chute opposite to the second opening. The second chute is performed synchronously with the first chute. The second opening of the second chute can be movably rotated and slid onto the second sliding protrusion, and the second sliding protrusion can be movably clamped on the second bottom edge. At the same time, the first chute can be movably clamped on the first sliding protrusion synchronously. The teapot lid can be fixed in the teapot mouth in multiple directions, and the teapot lid can be more stably fixed in the teapot mouth during the process of pouring tea.

[0011] In some embodiments of the teapot capable of preventing the teapot lid from falling off of the present invention, the teapot lid can be automatically rotated and slid into the teapot mouth by gravity to be closed. In some embodiments of the teapot capable of preventing the teapot lid from falling off of the present invention, the teapot is made of various materials such as ceramic, metal, acrylic or glass. The teapot lid itself has a certain weight. When the user places the first opening above the first sliding protrusion, or/and the second opening above the second sliding protrusion, the lower side of the teapot lid is not supported. When the user slightly loosens his fingers, the teapot lid uses its own gravity to cause the second chute to move synchronously with the first chute.

The first chute and the second chute use the weight of the teapot lid to flexibly rotate and slide onto the first sliding protrusion from the first opening, respectively, so that the first sliding protrusion can be movably clamped on the first bottom edge, and at the same time the second opening can be movably rotated and slid onto the second sliding protrusion by itself, and the second sliding protrusion can be movably clamped on the second bottom edge.

[0012] The teapot lid can be rotated and slid into the teapot mouth by gravity and can be detachably covered on the teapot mouth of the teapot body. Compared with the conventional teapot, the teapot can prevent the teapot lid from falling off and the teapot lid can be smoothly combined with the teapot mouth.

[0013] The invention also provides a teapot, wherein the handle can stably fix the teapot body when pouring tea, and the teapot body will not shake left and right, thereby overcoming the problem of the user holding the teapot handle shaking left and right when pouring tea.

[0014] In some embodiments of the teapot of the present invention, the teapot body comprises two connection portions and a handle. Each connection portion comprises an arc-shaped hole formed therein at a lower side and a polygonal hole formed therein at an upper side in communication with the arc-shaped hole. The handle comprises two polygonal structures respectively formed at two opposite free ends thereof. The volume of each polygonal structure is smaller than the internal space of the arc-shaped hole, and the volume of the polygonal structure is smaller than the internal space of the polygonal hole. Each polygonal structure is movably assembled in the arc-shaped hole of one respective connection portion, so that the polygonal structure is detachably locked in the respective polygonal hole.

[0015] Compared with the prior art, the invention has the following advantages: the handle of the teapot can be flexibly placed on either one of both sides for storage, and the two free ends of the handle of the teapot each have a polygonal structure. When pouring tea, the user holds the handle to lift the teapot, and the polygonal structures on both sides of the handle can be detachably clamped in the polygonal holes on both sides of the teapot body. The handle will not loosen and shake left and right. The user can hold the handle to steadily lift the teapot and pour tea, thus overcoming the problem of the teapot handle shaking left and right when pouring tea.

BRIEF DESCRIPTION OF THE DRAWINGS

[0016]

FIG. 1 is a schematic structural diagram of an embodiment of a teapot capable of preventing the lid from falling off according to the present invention.

FIG. 2 is an exploded view of the teapot shown in FIG. 1.

FIG. 3 is a perspective view of an embodiment of the teapot lid of the present invention that is prepared to be combined with the mouth of the teapot to prevent the teapot lid from falling off.

FIG. 4 is a top view of the teapot shown in FIG. 1.

FIG. 5 is an A-A cross-sectional view of the teapot in FIG. 4.

FIG. 6 is a schematic diagram showing that the handle of the teapot of FIG. 1 can be tilted toward either side of the teapot body for storage.

FIG. 7 is a water stop ring connected to the inner side of the teapot lid of FIG. 2 and FIG. 5.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

[0017] Please refer to FIGS. 1-5, which show some embodiments of a teapot capable of preventing the teapot lid from falling off. The teapot comprises: a teapot body **1** and a teapot lid **3.** The teapot body **1** comprises a teapot mouth **10,** a teapot spout **12,** a teapot inner wall **13,** and a first sliding protrusion **14.** The first sliding protrusion **14** protrudes from one side of the teapot inner wall **13.** The teapot lid **3** comprises a teapot lid top **31** and a teapot lid wall **33.** The teapot lid wall **33** further comprises a bottom edge **331** and a first chute **333.** The teapot lid wall **33** extends downward from one side of the teapot lid top **31** to a height such that the free end of the teapot lid wall **33** forms the bottom edge **331.** The bottom edge **331** is obliquely opened toward the teapot lid wall **33** to form the first chute **333.** The first chute **333** forms a first opening **335** at a free end on one side of the bottom edge **331.** The first chute **333** has a first bottom edge **337** formed on the other side remote from the first opening **335.** The first chute **333** can be movably slid onto the first sliding protrusion **14** by utilizing the first opening **335.** The first sliding protrusion **14** can be movably engaged with the first bottom edge **337,** whereby the teapot lid **3** can be detachably engaged with the teapot mouth **10** of the teapot body **1.**

[0018] According to some embodiments of the teapot of the present invention, the direction in which the first sliding protrusion **14** protrudes from the teapot inner wall **13** and the direction in which the teapot spout **12** protrudes from the teapot body **1** are parallel or the same, or/and the central axis of the first sliding protrusion **14** is parallel or identical to the direction of the water outlet line of the teapot spout **12.** The tilt direction of the first chute **333** is a tilt angle relative to the axis of the first sliding protrusion **14.** When the teapot lid **3** is tilted to pour water, the first chute **333** can be locked by the first sliding protrusion **14** to be fixed.

[0019] Thereby, when the user is pouring tea from the teapot, the first chute **333** can be detachably locked on the first sliding protrusion **14** to prevent the teapot lid **3** from being displaced relative to the teapot mouth **10.** When the teapot is used, the teapot lid **3** will not fall off and the tea will not spill due to pouring tea or slight collision, thereby scalding the user. On the contrary, when the tea

pouring process is finished, the user can gently turn the teapot lid **3** by hand, and at the same time drive the first chute **333** to leave the first sliding protrusion **14,** and the teapot lid **3** can leave the teapot mouth **10.**

[0020] The teapot lid of the invention is prevented from falling off by uncovering the teapot lid **3** and driving the first opening **335** of the first chute **333** to rotate and slide onto the first sliding protrusion **14** and engage in the teapot mouth **10.** The handheld teapot lid **3** only needs to be rotated slightly according to the usual operation mode, without adding other operations, which is convenient and quick. The teapot lid **3** is fixed in the teapot mouth **10,** and the effect is stable and reliable. Compared with the prior art, the teapot of the invention can prevent the teapot lid **3** from falling off, the tea from spilling, and prevent burns during the process of pouring tea.

[0021] Please refer to FIG. 1 to FIG. 5, which are an embodiment of a teapot capable of preventing the teapot lid from falling off, wherein the teapot body **1** further comprises a second sliding protrusion **17.** The second sliding protrusion **17** protrudes from the other side of the teapot inner wall **13.** The teapot lid **3** further comprises a second chute **332.** The bottom edge **331** is obliquely opened toward the teapot lid wall **33** to form the second chute **332.** The second chute **332** forms a second opening **334** at a free end on one side of the bottom edge **331,** and the second chute **332** forms a second bottom edge **336** on the other side remote from the second opening **334.** The second chute **332** is synchronously moved with the first chute **333,** and the second opening **334** of the second chute **332** can be movably rotated and slid onto the second sliding protrusion **17.** The second sliding protrusion **17** is movably mounted on the second bottom edge **336,** and the first chute **333** is synchronously movably mounted on the first sliding protrusion **14.** The teapot lid **3** has multiple directions of fixing in the teapot mouth **10,** so that the teapot lid **3** can be more stably fixed on the teapot mouth **10** during the process of pouring tea.

[0022] The teapot capable of preventing the teapot lid from falling off is made of various materials such as ceramic, metal, acrylic or glass. In the embodiment diagram, the teapot is made of metal. The teapot lid **3** itself has a certain weight. When the user places the first opening **335** above the first sliding protrusion **14,** or/and the second opening **334** above the second sliding protrusion **17,** the lower side of the teapot lid **3** is not supported. When the user slightly loosens his fingers, the teapot lid **3** uses its own weight to cause the second chute **332** to move synchronously with the first chute **333.** The first chute **333** and the second chute **332** use the weight of the teapot lid **3** to flexibly rotate and slide onto the first sliding protrusion **14** from the first opening **335.** The first sliding protrusion **14** is flexibly locked at the first bottom edge **337**.and at the same time, the second opening **334** can be movably rotated and slid onto the second sliding protrusion **17,** and the second sliding protrusion **17** can be movably clamped on the second bottom edge **336,** so that the teapot lid **3** can be automatically rotated and slid into the teapot mouth **10** by gravity to be closed, thereby increasing the smoothness of the teapot lid **3** combined with the teapot mouth **10** when using the teapot.

[0023] In some embodiments of the teapot capable of preventing the teapot lid from falling off, the direction in which the first sliding protrusion **14** protrudes from the teapot inner wall **13** and the direction in which the teapot spout **12** protrudes from the teapot body are parallel or the same, or the central axis of the first sliding protrusion **14** is parallel to or the same as the water outlet axis of the teapot spout **12,** and the inclination direction of the first chute **333** is formed by an inclination angle relative to the tangent line of the intersection of the central axis of the first sliding protrusion **14.** The direction in which the second sliding protrusion **17** protrudes from the teapot inner wall **13** and the direction in which the teapot spout **12** protrudes from the teapot body are parallel or the same, or/and the central axis of the second sliding protrusion **17** is parallel or identical to the direction in which the teapot spout **12** exits the water. The inclination direction of the second chute **332** is formed by an inclination angle with respect to the tangent line of the intersection of the central axis of the second sliding protrusion **17.**

[0024] When the teapot lid **3** is tilted to pour water, the first chute **333** can be fixed by the first sliding protrusion **14,** and the second chute **332** can be fixed by the second sliding protrusion **17.** Thereby, when the user pours water or tea from the teapot, the teapot lid **3** is prevented from being displaced relative to the teapot mouth **10,** and the teapot lid **3** will not fall off and spill due to pouring tea or slight collision when the teapot is used, thereby scalding the user. On the contrary, when the tea pouring process is finished, the user can lightly turn the teapot lid **3** by hand, thereby driving the first chute **331** to leave the first sliding protrusion **14** and the second chute **332** to leave the second sliding protrusion **17,** and the teapot lid **3** can leave the teapot mouth **10.**

[0025] Please refer to FIG. 2, FIG. 3 and FIG. 7, an embodiment of the present invention is a teapot capable of preventing the teapot lid from falling off, wherein the first opening **335** is formed with a first curved surface structure **3351** at the lower edge end, and the second opening **334** is formed with a second curved surface structure **3341** at the lower edge end. The first chute **333** can be movably rotated and slid onto the first sliding protrusion **14** by using the first opening **335.** The first curved surface structure **3351** allows the first opening **335** to slide onto the first sliding protrusion **14** more smoothly and be locked in the first chute **333.** The second chute **332** can be movably rotated and slid onto the second sliding protrusion **17** by utilizing the second opening **334.** The second curved surface structure **3341** allows the second opening **334** to slide onto the second sliding protrusion **17** more smoothly and be locked in the second chute **332.**

[0026] Please refer to FIG. 2, FIG. 3 and FIG. 7, an embodiment of the present invention is a teapot capable of preventing the teapot lid from falling off, wherein the

bottom edge **331** is formed as a closed bottom structure **3310** around the circumference, and the closed bottom structure **3310** closes the bottom side of the teapot lid **3,** further preventing water from seeping from the first chute **333** or the second chute **332** when pouring tea.

[0027] Please refer to FIG. 2 and FIG. 5, in an embodiment of the teapot capable of preventing the teapot lid from falling off of the present invention, the teapot body **1** further comprises an inner convex wall **19,** and the inner convex wall **19** protrudes from the teapot inner wall **13** to a certain height. The teapot lid **3** can be detachably covered on the teapot mouth **10** of the teapot body **1,** and the bottom edge **331** of the teapot lid **3** can be detachably placed on the inner convex wall **19.** The inner convex wall **19** may be in the form of a convex block, a convex wall, a plurality of convex blocks or a plurality of convex walls, protruded from the teapot inner wall **13.**

[0028] The teapot of the invention is made of a material such as ceramic or glass, and has a certain weight. In the embodiment in which the teapot lid **3** is combined with the teapot mouth **10,** the weight of the teapot lid **3** is transmitted from the first chute **333** and the second chute **332** to the first sliding protrusion **14** and the second sliding protrusion **17,** and the contacting places of the inner surfaces generate a larger friction coefficient due to the pressure. The teapot lid **3** and its bottom edge **331** can be further supported by the inner convex wall **19,** and the frictional force of the weight of the teapot lid **3** on the first sliding protrusion **14** and the second sliding protrusion **17** from the first chute **333** and the second chute **332** can be reduced. The user can easily reverse the first chute **333** and the second chute **332** of the teapot lid **3** to separate from the first sliding protrusion **14** and the second sliding protrusion **17,** and take the teapot lid **3** from the teapot mouth **10.**

[0029] Please refer to FIG. 2, FIG. 3 and FIG. 5, in an embodiment of the teapot capable of preventing the teapot lid from falling off of the present invention, the first chute **333** and the second chute **332** of the teapot lid **3** are hollow groove structures, and the hollow groove structures are structures that penetrate the teapot lid wall **33.** When the teapot has a higher water level and the tea is close to the teapot lid **3,** a small portion of the tea may seep out of the teapot mouth **10** from the first chute **333** and the second chute **332** during the process of pouring the tea. To this end, the teapot lid **3** further comprises a water stop ring **18,** which is combined with the inner side of the teapot lid wall **33** and covers the inner sides of the first chute **333** and the second chute **332** to prevent tea from seeping out of the teapot mouth **10** from the first chute **333** and the second chute **332.** The water stop ring **18** may be made of any waterproof material such as a metal gasket, a plastic gasket, a silicone gasket or a rubber gasket.

[0030] Please refer to FIGS. 1-5, in an embodiment of the teapot capable of preventing the teapot lid from falling off of the present invention, the teapot further comprises a handle **15** pivotally coupled to the teapot body **1.** The teapot body **1** further comprises two connection portions **11** located on the topmost edge thereof at two sides. A connection hole is formed inside the connection portion **11,** and the connection hole is formed of a lower arc-shaped hole **111** and an upper polygonal hole **113** in communication with each other. The two opposite free ends of the handle **15** are respectively formed with a polygonal structure **151,** the volume of the polygonal structure **151** is smaller than the internal space of the arc-shaped hole **111,** and the volume of the polygonal structure **151** is slightly smaller than the internal space of the polygonal hole **113.** The polygonal structures **151** can be movably assembled in the arc-shaped holes **111** of the respective connection portions **11,** so that when the handle **15** lifts the teapot body **1,** the polygonal structures **151** can be detachably locked in the respective polygonal holes **113.** In some embodiments, the polygonal structures **151** are rectangular structures or triangular structures, and the polygonal holes **113** are rectangular or triangular holes to adapt to the polygonal structures **151.**

[0031] Referring to FIG. 1 to FIG. 6, the present invention provides an embodiment of a teapot, wherein the teapot body **1** further comprises a set of connection portions **11,** a handle **15.** The connection portion **11** has a connection hole formed inside, and the bottom side of the connection hole is an arc-shaped hole **111,** and the arc-shaped hole **111** extends upward to form a polygonal hole **113.** The free ends of the handle **15** are respectively formed with a polygonal structure **151.** The volume of the polygonal structure **151** is smaller than the inner space of the arc-shaped hole **111,** and the volume of the polygonal structure **151** is slightly smaller than the inner space of the polygonal hole **113.** The polygonal structure **151** can be movably assembled in the arc-shaped hole **111** of one respective connection portion **11.** Thus, when the handle **15** lifts the teapot body **1,** the polygonal structures **151** can be detachably locked in the respective polygonal holes **113,** and the teapot body **1** will not shake relative to the handle **15,** thus overcoming the problem of the handle and the teapot body of the conventional teapot being loose and shaking. On the contrary, when the teapot body **1** is placed on the table, the handle **15** is put down and the polygonal structures **151** of the handle **15** can fall down into the respective arc-shaped holes **111** at the lower side by its own gravity. At the same time, the handle **15** can be tilted to either side for storage.

[0032] In some embodiments, the polygonal structures **151** are rectangular structures or triangular structures, and the polygonal holes **113** are rectangular or triangular holes to adapt to the polygonal structures **151.**

[0033] In some embodiments, the connecting corners between the sides of the polygonal structures **151** are respectively formed into an arc surface, for example, the four corners of the quadrilateral structures are modified into arc surfaces. The polygonal structures **151** can be movably assembled in the arc-shaped holes **111** of the respective connection portions **11.** When the teapot body

1 is lifted by the handle **15** with the arc surfaces, the arc surfaces can slide into the polygonal holes **113** more smoothly, or the arc surfaces can be separated from the polygonal holes **113** more smoothly.

[0034] The above-mentioned embodiments of the present invention are merely examples for clearly illustrating the present invention, and are not intended to limit the implementation of the present invention. For ordinary technicians in the field, other different forms of changes or modifications can be made based on the above description. Without further ado, all implementation methods are listed, and any modifications, equivalent substitutions, and improvements made within the spirit and principles of this invention should be included in the scope of protection of the rights claimed in this invention.

Claims

1. A teapot, comprising:

a teapot body comprising a teapot mouth, a teapot spout, a teapot inner wall and a first sliding protrusion, said first sliding protrusion protruding from one side of said teapot inner wall; and

a teapot lid comprising a teapot lid top and a teapot lid wall, said teapot lid wall comprising a bottom edge and a first chute, said teapot lid wall extending downward from one side of said teapot lid top to a height such that a free end of said teapot lid wall forms said bottom edge, said bottom edge being obliquely opened toward said teapot lid wall to form said first chute, said first chute forming a first opening at a free end on one side of said bottom edge, and said first chute forming a first bottom edge on an opposite side relative to said first opening, said first chute being movably rotated and slid onto said first sliding protrusion by utilizing said first opening, and said first sliding protrusion being movably clamped on said first bottom edge, so that said teapot lid is detachably covered on said teapot mouth of said teapot body.

2. The teapot as claimed in claim 1, wherein said teapot body further comprises a second sliding protrusion, said second sliding protrusion protruding from an opposite side of said teapot inner wall; said teapot lid further comprises a second chute, said bottom edge being opened diagonally to an opposite side of said teapot lid wall to form said second chute, said second chute forming a second opening at a free end on one side of said bottom edge, said second chute forming a second bottom edge on an opposite side relative to said second opening, said second opening of said second chute being movably rotated and slid onto said second sliding protrusion, and said second sliding protrusion being movably locked on said second bottom edge.

3. The teapot as claimed in claim 1, wherein the direction in which said first sliding protrusion protrudes from said teapot inner wall and the direction in which said teapot spout protrudes from said teapot body are parallel or identical, or/and the central axis of said first sliding protrusion is parallel or identical to the water outlet axis of said teapot spout, and the inclination direction of said first chute forms an inclination angle relative to the central axis of said first sliding protrusion; the direction in which said second sliding protrusion protrudes from said teapot inner wall and the direction in which said teapot spout protrudes from said teapot body are parallel or identical, or/and the central axis of said second sliding protrusion is parallel or identical to the direction of the water outlet axis of said teapot spout, and the inclination direction of said second chute is combined to form an inclination angle relative to the central axis of said second sliding protrusion.

4. The teapot as claimed in claim 2, wherein said first opening comprises a first curved surface structure formed at a lower edge end thereof and said second opening comprises a second curved surface structure formed at a lower edge end thereof.

5. The teapot as claimed in claim 2, wherein the circumference of said bottom edge of said teapot lid forms a closed bottom structure.

6. The teapot as claimed in claim 2, wherein said teapot inner wall further comprises at least one inner convex wall, said at least one inner convex wall protruding from said teapot inner wall to a height; said at least one inner convex wall being formed of at least one bump.

7. The teapot as claimed in claim 2, wherein said teapot lid further comprises a water stop ring, said water stop ring being combined with an inner side of said teapot lid wall and covering respective inner sides of said first chute and said second chute.

8. The teapot as claimed in claims 1 to 7, wherein said teapot body further comprises two connection portions and a handle, each said connection portion comprising an arc-shaped hole formed therein at a lower side and a polygonal hole formed therein at an upper side in communication with said arc-shaped hole, said handle comprising two polygonal structures respectively formed at two opposite free ends thereof, the volume of each said polygonal structure being smaller than the internal space of said arc-shaped hole, and the volume of said polygonal structure being smaller than the internal space of said

polygonal hole, each said polygonal structure being movably assembled in said arc-shaped hole of one respective said connection portion, each said polygonal structure being selectively a rectangle structure or a triangle, structure and said polygonal hole being correspondingly a rectangular hole or a triangular hole.

9. A teapot, comprising a teapot body and a teapot lid, wherein said teapot body comprises two connection portions and a handle, each said connection portion comprising an arc-shaped hole formed therein at a lower side and a polygonal hole formed therein at an upper side in communication with said arc-shaped hole, said handle comprising two polygonal structures respectively formed at two opposite free ends thereof, the volume of each said polygonal structure being smaller than the internal space of said arc-shaped hole, and the volume of said polygonal structure being smaller than the internal space of said polygonal hole, each said polygonal structure being movably assembled in said arc-shaped hole of one respective connection portion, so that said polygonal structure is detachably locked in the respective said polygonal hole.

10. The teapot as claimed in claim 9, wherein each said polygonal structure is selectively a rectangle structure or a triangle, structure and said polygonal hole is correspondingly a rectangular hole or a triangular hole.

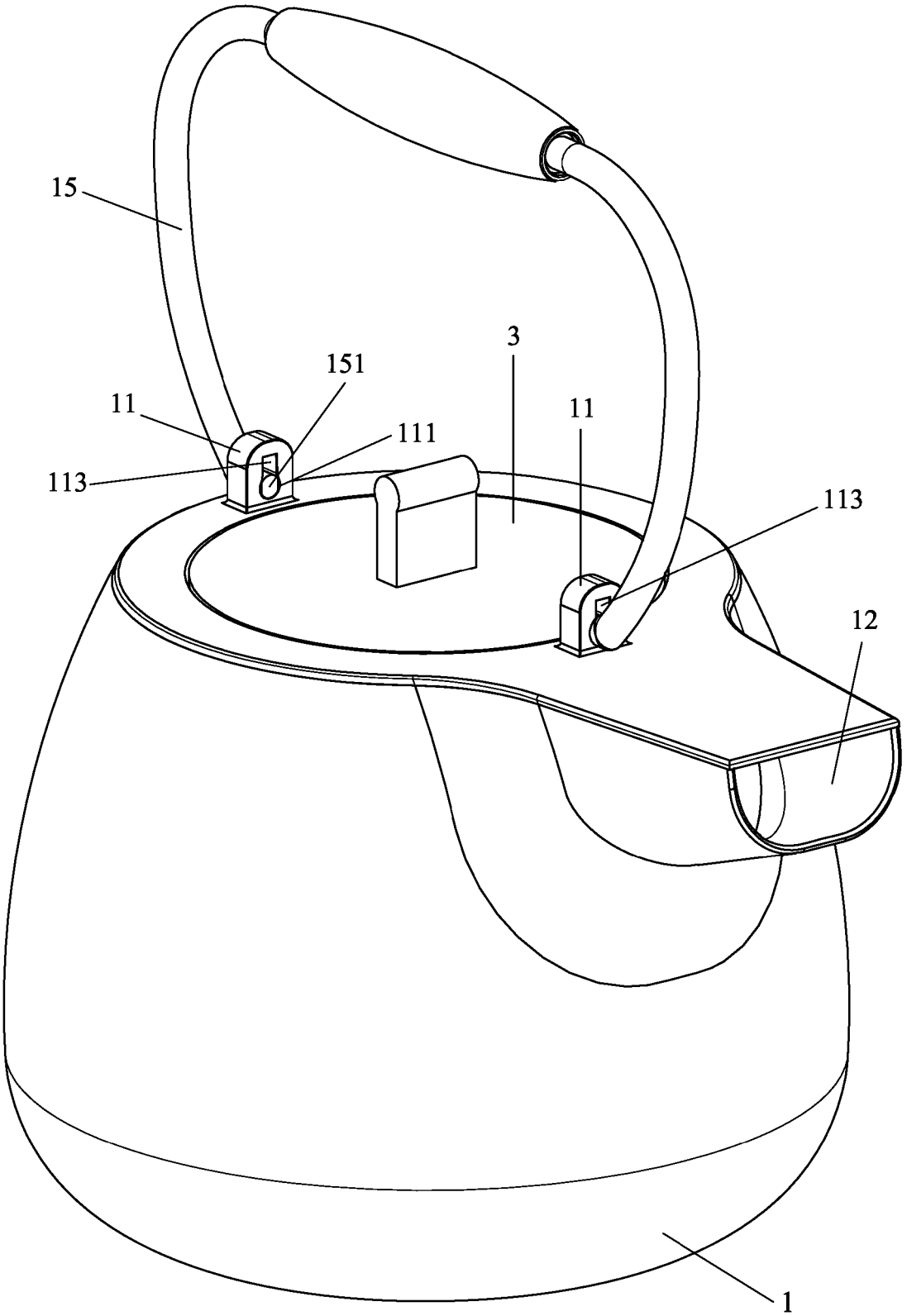

Fig. 1

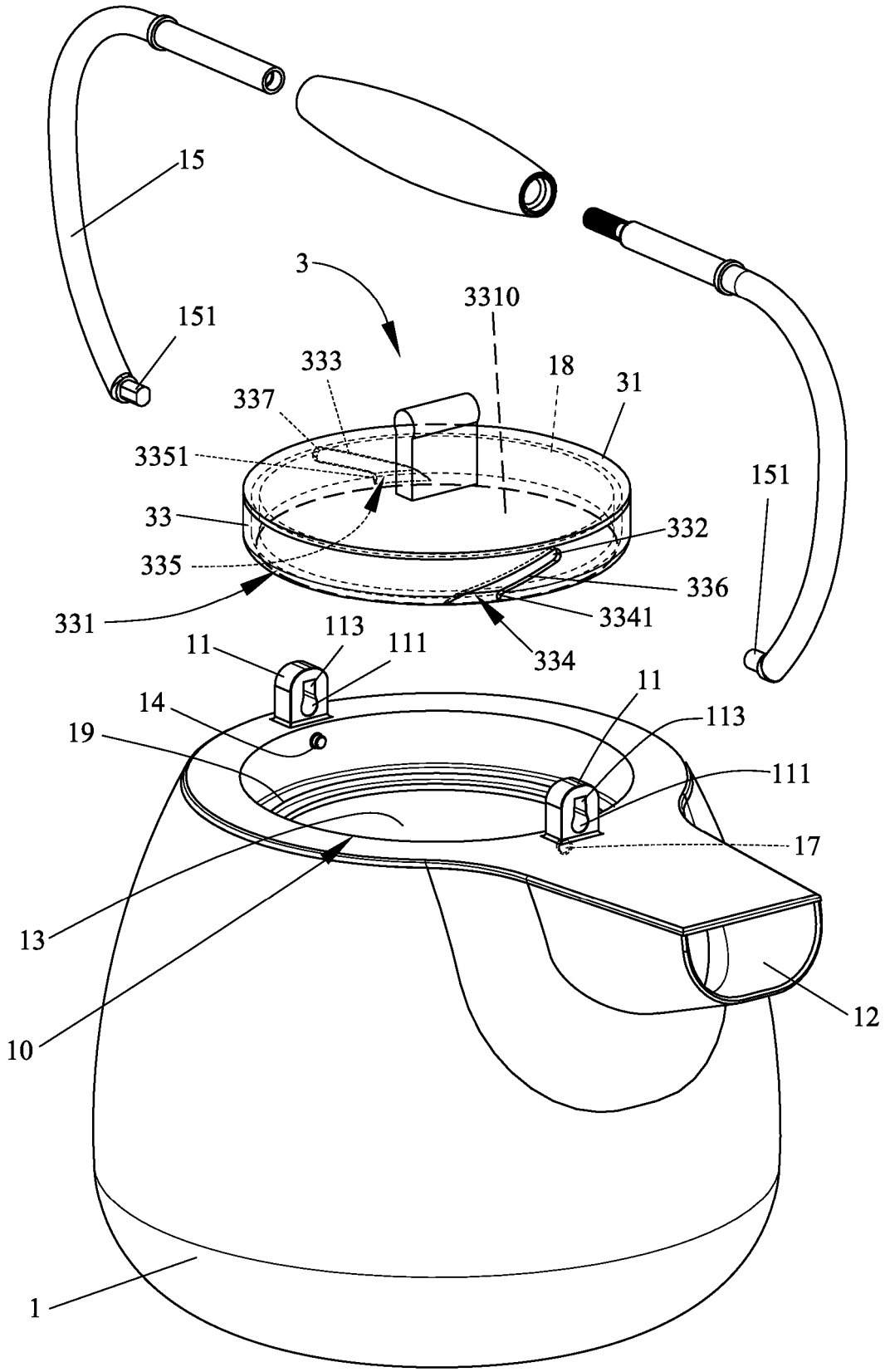
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Fig. 2

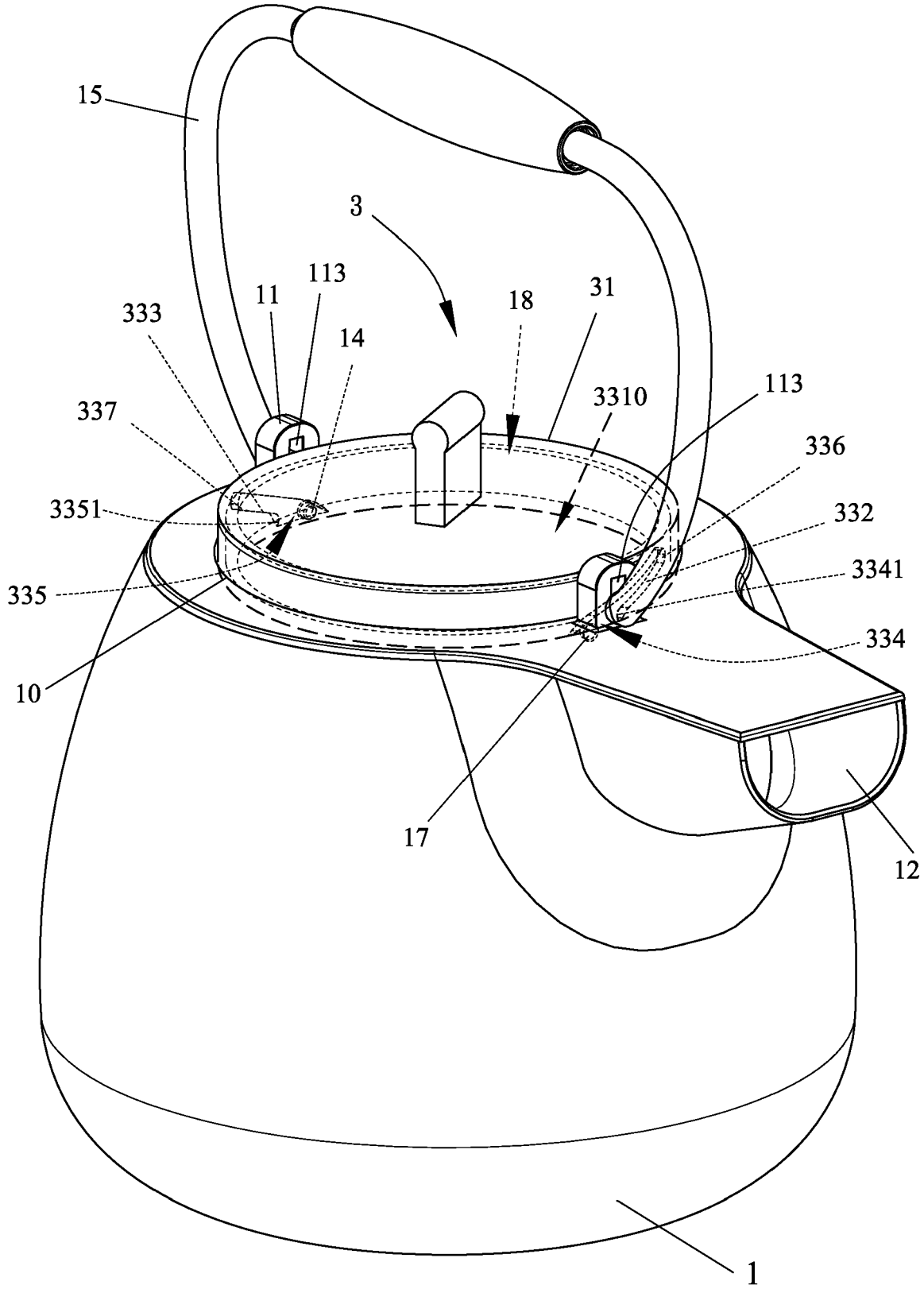
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Fig. 3

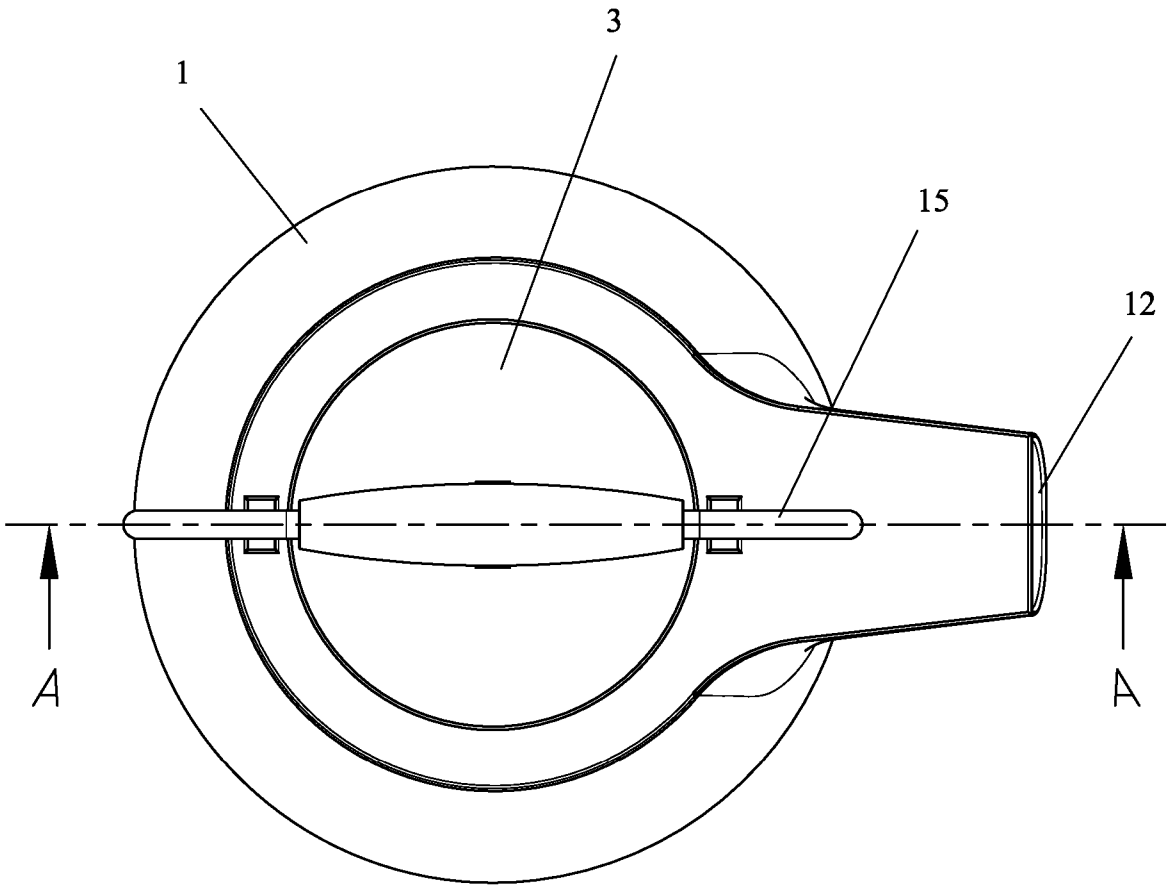

Fig. 4

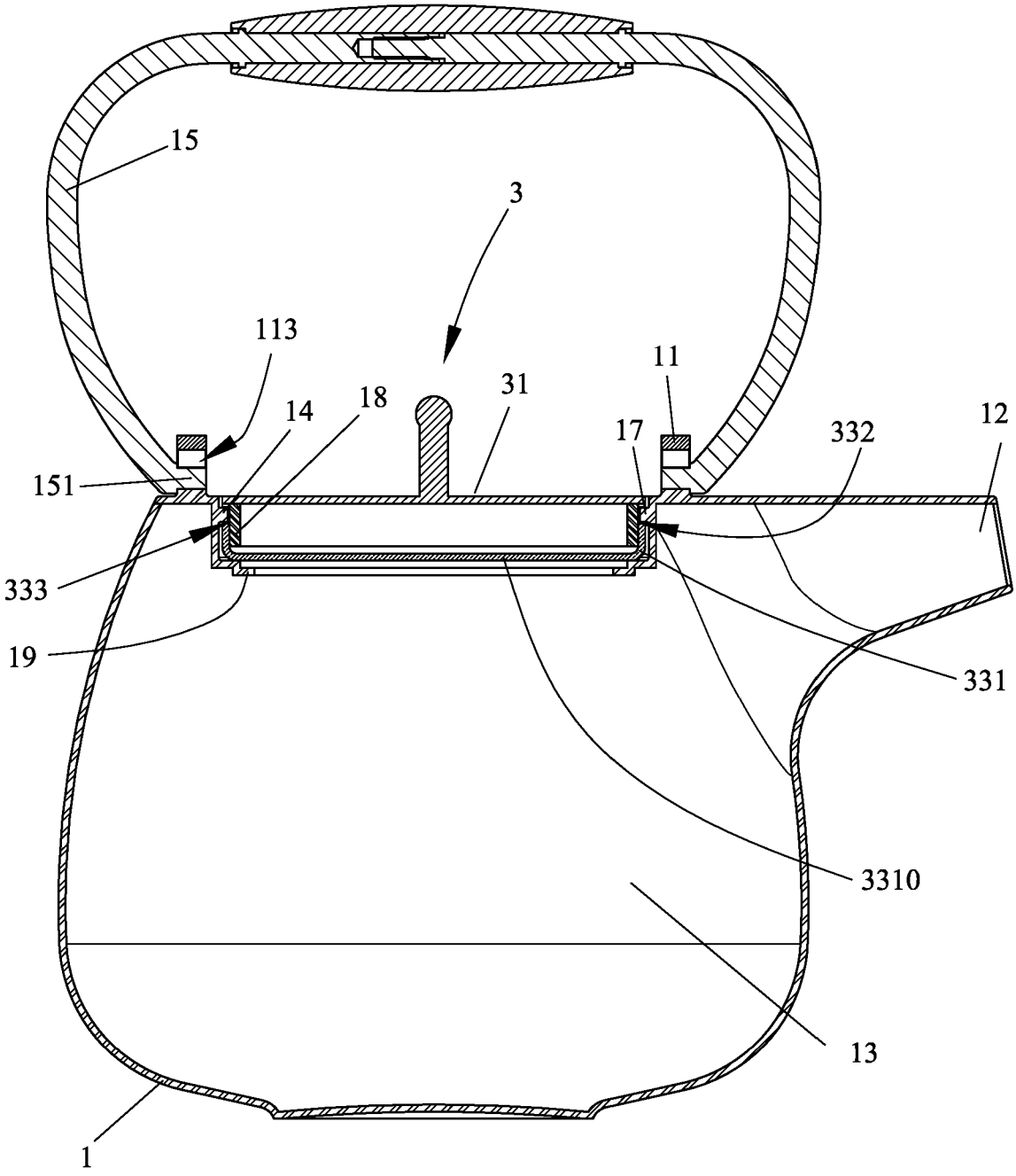

Fig. 5

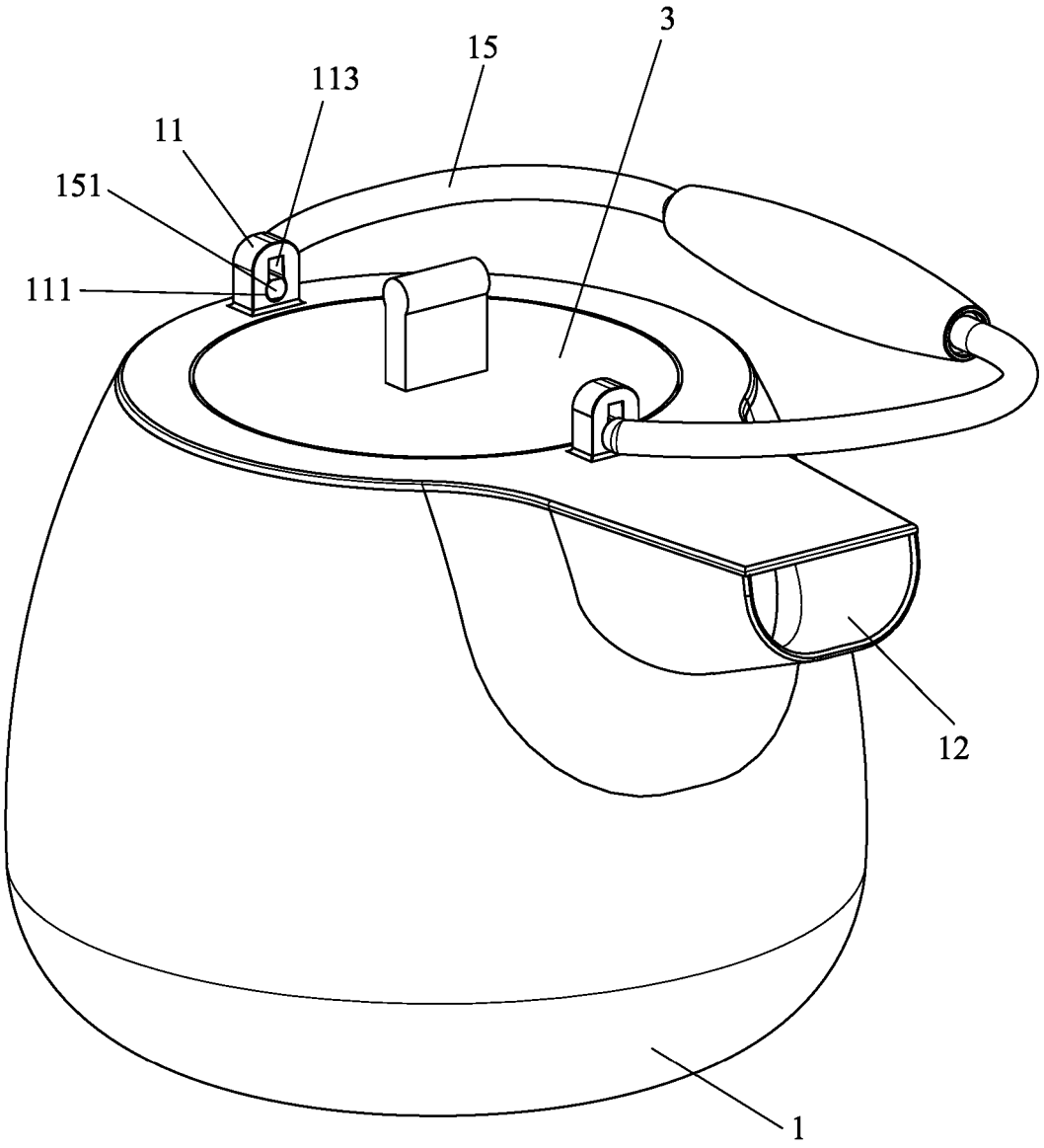

Fig. 6

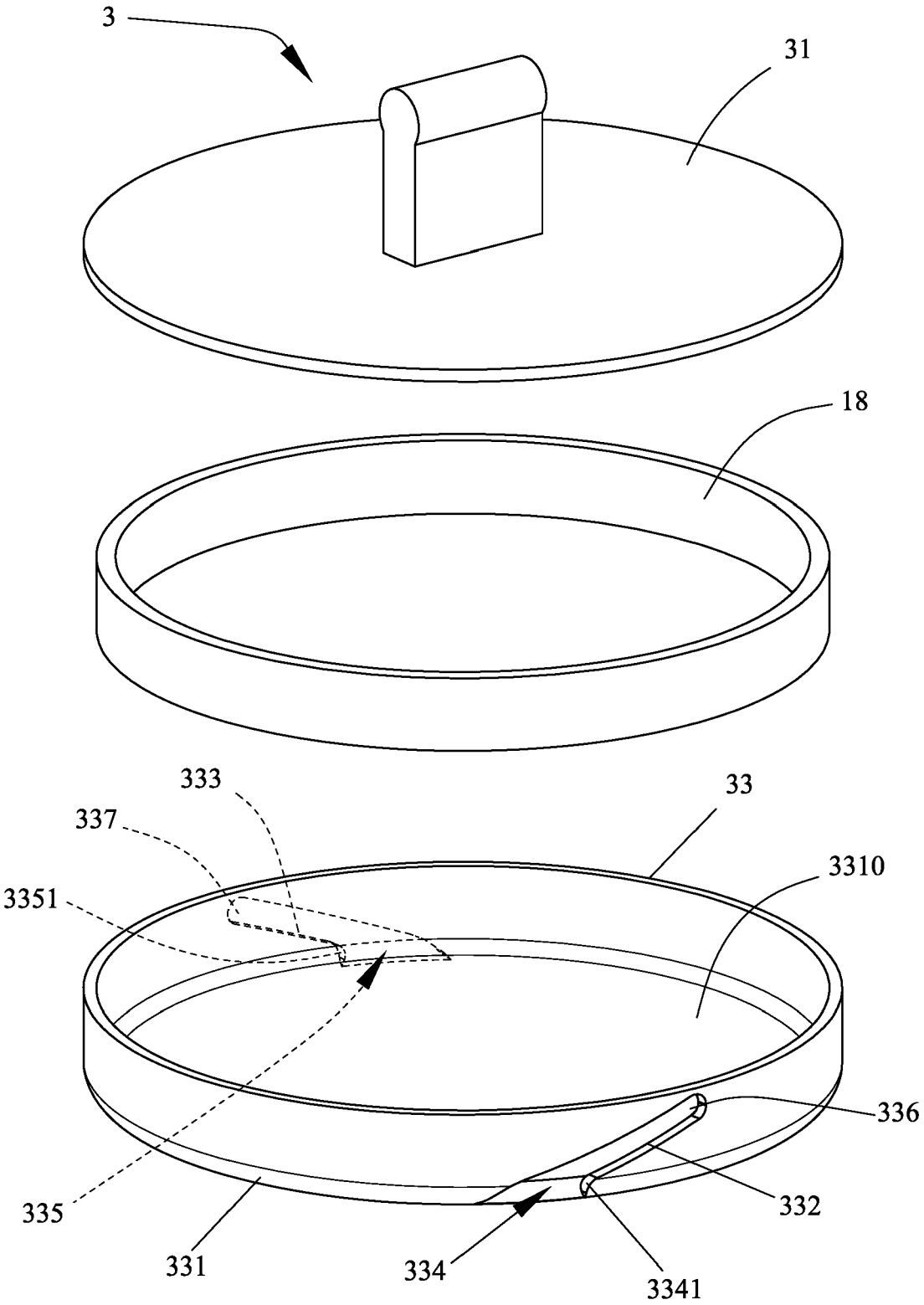

Fig. 7