



US 20110174830A1

(19) **United States**

(12) **Patent Application Publication**  
**LIAO**

(10) **Pub. No.: US 2011/0174830 A1**

(43) **Pub. Date: Jul. 21, 2011**

(54) **DRINKING CUP**

(76) Inventor: **Yi-Chia LIAO**, Shih Tan Hsiang (TW)

(21) Appl. No.: **12/690,941**

(22) Filed: **Jan. 21, 2010**

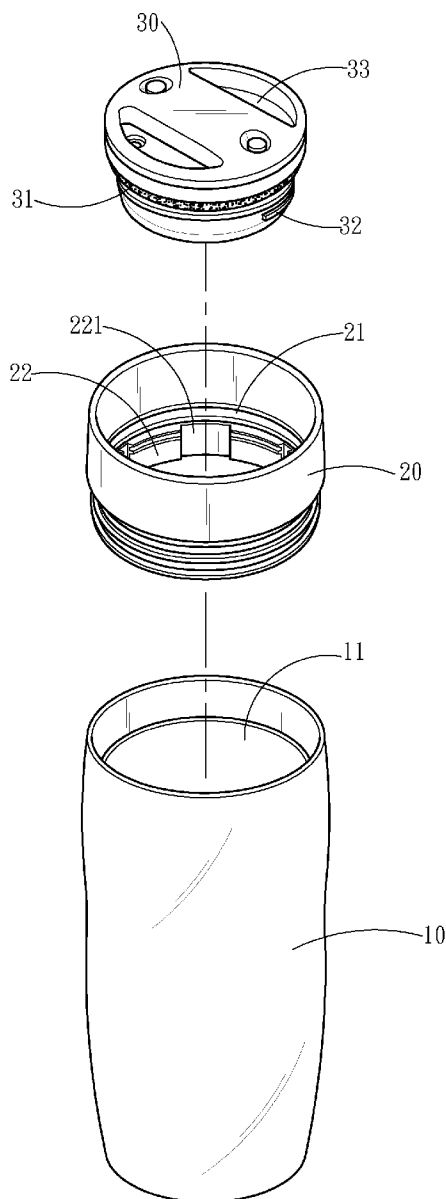
**Publication Classification**

(51) **Int. Cl.**  
**A47G 19/22** (2006.01)

(52) **U.S. Cl.** ..... **220/713**

(57) **ABSTRACT**

A drinking cup includes a cup body, a drinking portion, and a cup lid. When the drinking portion and the cup lid are locked with each other in a sealed state, the liquid in the cup body cannot flow out, and when the locking between the drinking portion and the cup lid is released in a drinkable state, a gap is formed therebetween for passing through the liquid, so that the user can drink at any position of the drinking portion without completely separating the cup lid from the drinking portion. Furthermore, since the user can not directly contact the gap during drinking, a better hygiene can be achieved due to the reduction of bacteria proliferation. Besides, a sealed portion on the cup lid and a rejection portion on the drinking portion are further provided for tightly fitting with each other in the sealed state, thereby preventing from leakage.



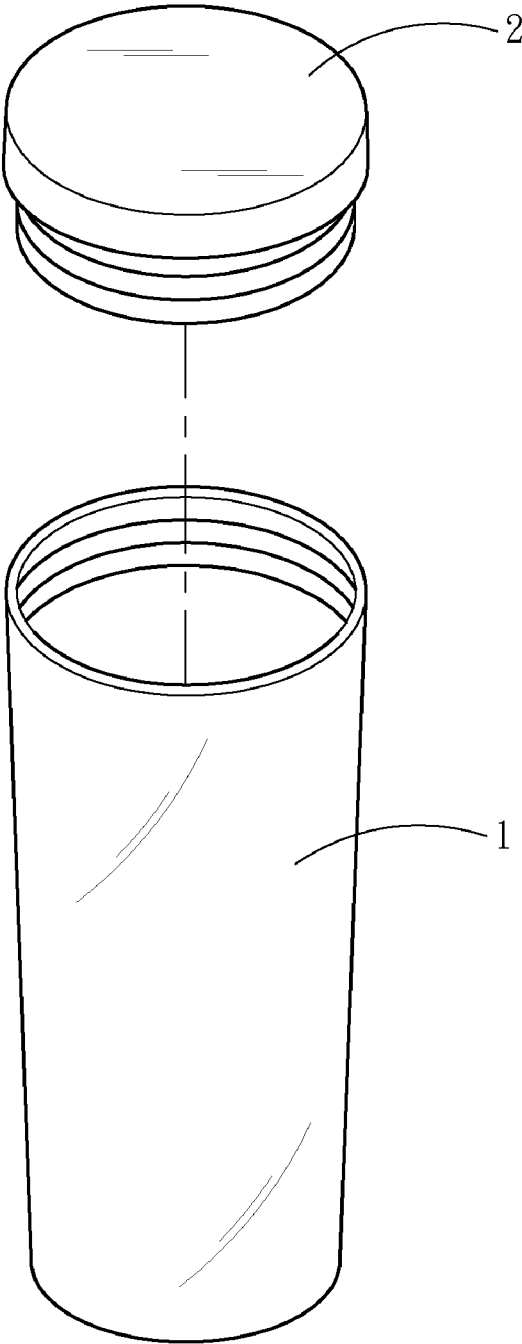


Fig . 1  
PRIOR ART

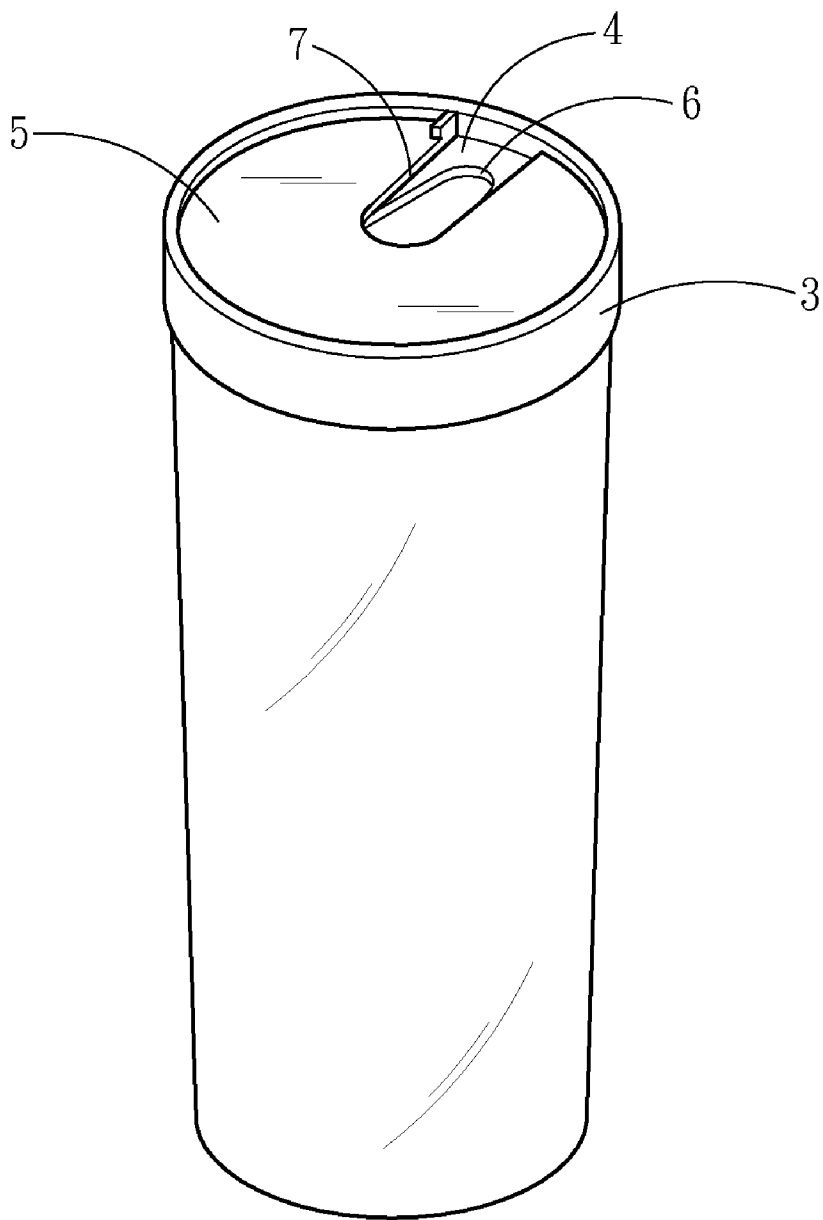


Fig . 2  
PRIOR ART

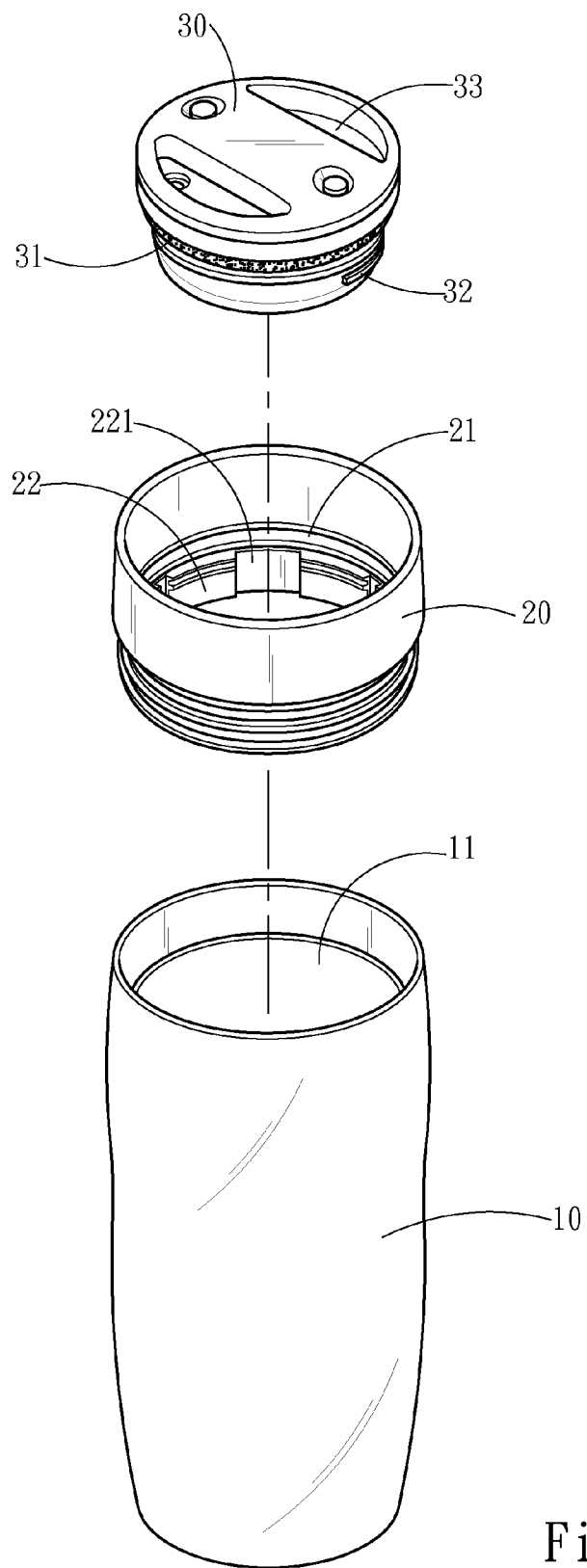


Fig . 3

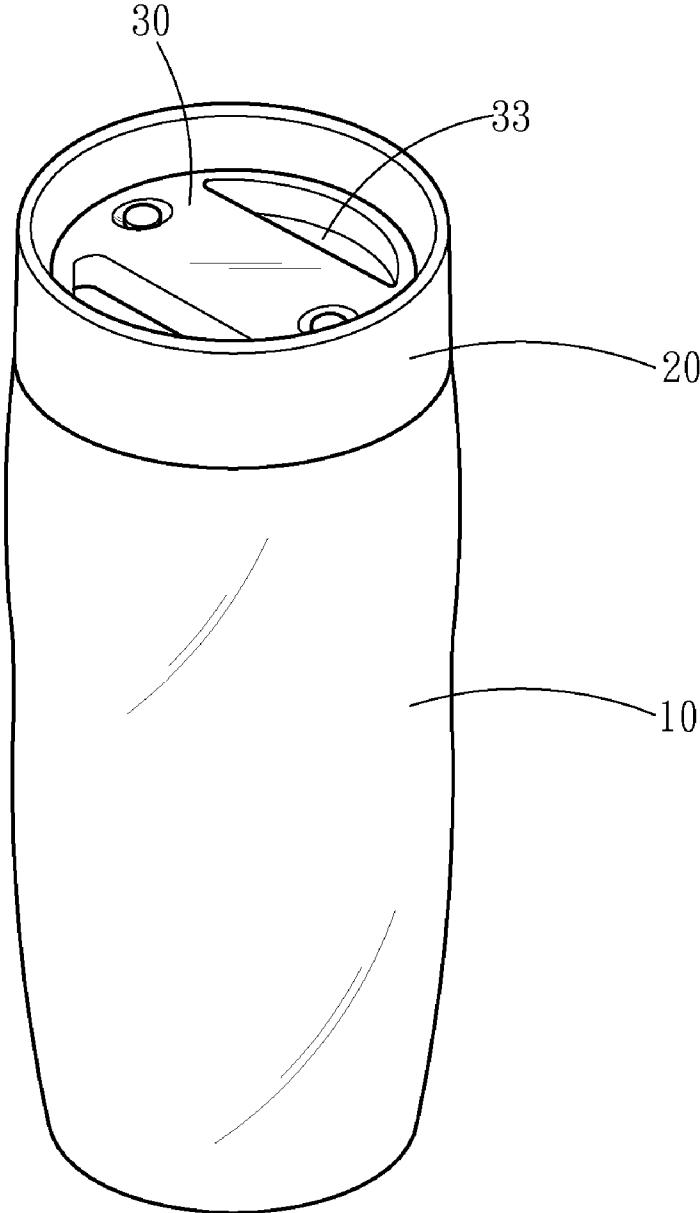


Fig . 4

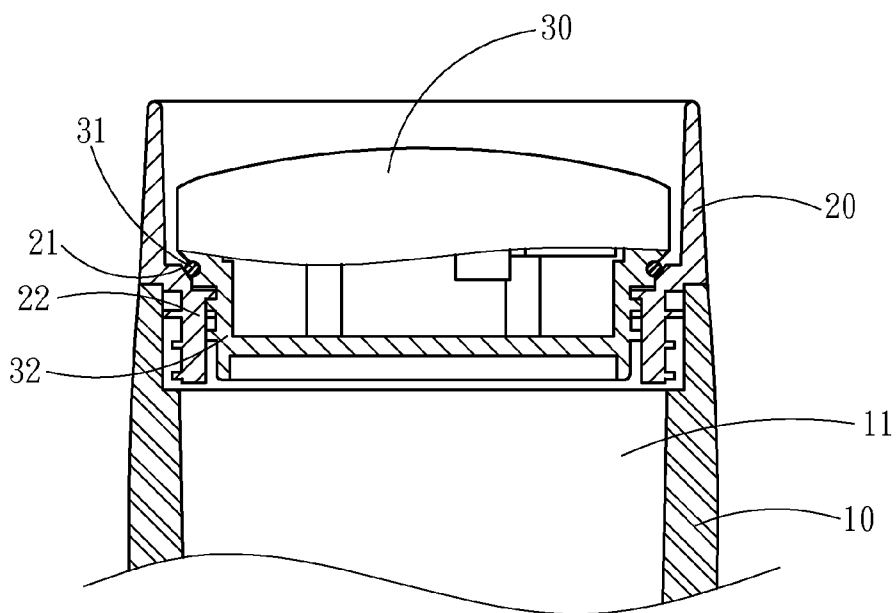


Fig . 5A

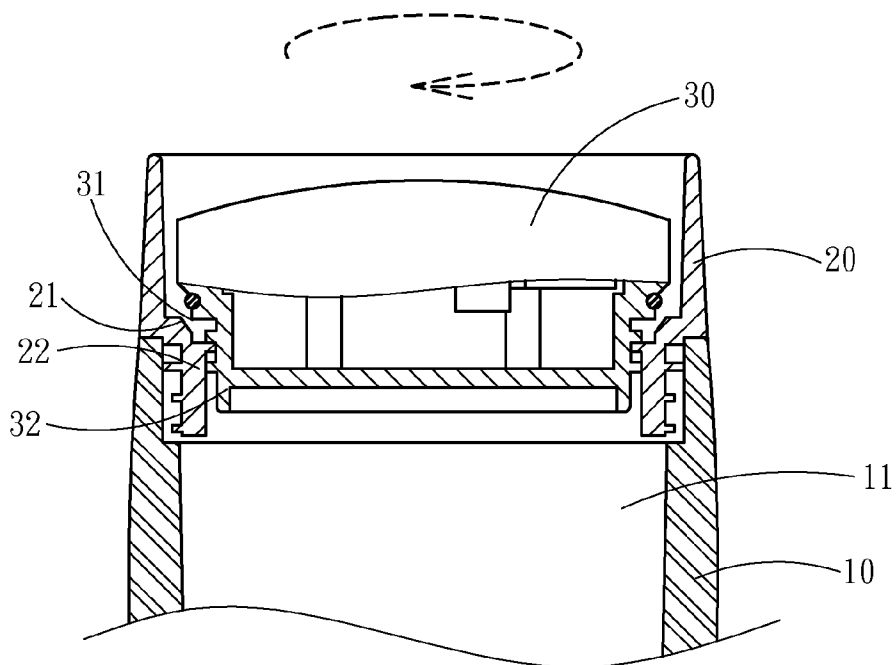


Fig . 5B

**DRINKING CUP**

**FIELD OF THE INVENTION**

[0001] The present invention is related to a drinking cup structure, and more particularly to a drinking cup with a cup lid.

**BACKGROUND OF THE INVENTION**

[0002] FIG. 1 shows a conventional drinking cup which can be rotated to be sealed. The drinking cup includes a cup body 1 and a cup lid 2, wherein the cup body 1 and the cup lid 2 can be fastened together or unfastened by screwing. Therefore, when there is a need to drink, the user has to completely rotate and unfasten the cup lid 2 from the cup body 1, and after drinking, the cup lid 2 must be covered on the cup body 1 until it is tightly locked with the cup body 1 for avoiding leakage.

[0003] Moreover, FIG. 2 shows another conventional drinking cup which employs a double-layer opening lid. The cup lid 3 includes a drinking layer 4 and a blocking layer 5, wherein the drinking layer 4 provides a drinking aperture 6 for passing through the liquid, and the blocking layer 5 provides an opening 7 corresponding to the drinking aperture 6. When the opening 7 is rotated to match to the drinking aperture 6, the user can drink the liquid therein, but when the opening 7 is rotated to move away from the drinking aperture 6, the drinking aperture 6 will be blocked for preventing liquid leakage. Therefore, it will be necessary to rotate the blocking layer 5 to match to the drinking aperture 6 for drinking. But, since a sealed structure is absent between the blocking layer 5 and the drinking layer 4, it is easy to have a leakage.

**SUMMARY OF THE INVENTION**

[0004] The primary object of the present invention is to solve the inconveniences of the conventional drinking cup which should rotate the cup lid to be completely unfastened for drinking and should be fastened tightly for sealing.

[0005] Another object of the present invention is to solve the inconveniences of the drinking cup with the double-layer opening lid which provides single drinking aperture only and may have the leakage problem easily.

[0006] For achieving the objects above, the present invention provides a drinking cup including a cup body, a drinking portion connected with the cup body, and a cup lid connected with the drinking portion. The cup body provides an accommodating space for holding a liquid. The drinking portion is a hollow structure with a rejecting portion and a first fastening portion respectively extended and protruded on the inner surface thereof, wherein the first fastening portion further has plural indentations for passing through the liquid. The cup lid has a sealed portion corresponding to the rejecting portion, and a second fastening portion for cooperating with the first fastening portion. When the second fastening portion and the first fastening portion are locked with each other, the liquid in the cup body cannot be leaked out by tightly coupling the sealed portion and the rejecting portion, and when the second fastening portion is not locked with the first fastening portion, the sealed portion is separated from the rejecting portion for allowing the liquid passing through the indentations, thereby achieving a drinkable state.

[0007] Accordingly, through tightly coupling the sealed portion and the rejecting portion, the liquid will not be leaked out, and for drinking, it only needs to separate the sealed

portion from the rejection portion without completely taking the cup lid away from the cup body. Besides, since the first fastening portion provides plural indentations for passing through the liquid, the user does not need to drink with the single drinking opening as shown in the prior art.

**BRIEF DESCRIPTION OF THE DRAWINGS**

[0008] The foregoing aspects and many of the attendant advantages of this invention will be more readily appreciated as the same becomes better understood by reference to the following detailed description, when taken in conjunction with the accompanying drawings, wherein:

[0009] FIG. 1 is a schematic view showing a conventional drinking cup with a rotary and sealed cup lid;

[0010] FIG. 2 is a schematic view showing another conventional drinking cup with a double-layer opening lid;

[0011] FIG. 3 is an exploded view showing a preferred embodiment according to the present invention;

[0012] FIG. 4 is a perspective viewing showing of the preferred embodiment according to the present invention;

[0013] FIG. 5A is a schematic view showing a sealed state in the preferred embodiment according to the present invention; and

[0014] FIG. 5B is a schematic view showing a drinkable state in the preferred embodiment according to the present invention.

**DESCRIPTION OF THE PREFERRED EMBODIMENT**

[0015] Please refer to FIG. 3 for an exploded view showing a preferred embodiment according to the present invention, and FIG. 4 for a perspective view showing the preferred embodiment according to the present invention. As shown, the present invention provides a drinking cup including a cup body 10, a drinking portion 20 connected with the cup body 10, and a cup lid 30 connected with the drinking portion 20. The cup body 10 provides an accommodating space 11 for holding a liquid. The drinking portion 20 is a hollow structure with a rejecting portion 21 and a first fastening portion 22 respectively extended and protruded on the inner surface thereof, wherein the first fastening portion 22 includes plural indentations 221 for passing through the liquid. The cup lid 30 includes a sealed portion 31 corresponding to the rejecting portion 21, and a second fastening portion 32 for cooperating with the first fastening portion 22. When the second fastening portion 32 and the first fastening portion 22 are locked with each other, the sealed portion 31 and the rejecting portion 21 are tightly coupled together, thereby preventing the liquid from leaking out of the cup body 10, namely the drinking cup is in a sealed state. When the second fastening portion 32 is not locked with the first fastening portion 31, the sealed portion 31 is separated from the rejecting portion 21, so that the liquid can pass through the indentations 221, namely the drinking cup is in a drinkable state.

[0016] In a preferred embodiment of the present invention, the cup body 10, the drinking portion 20 and the cup lid 30 are all implemented to have a circular shape. Please refer to FIG. 5A for a schematic view showing the sealed state in a preferred embodiment according to the present invention. As shown, the first fastening portion 22 and the second fastening portion 32 are screwed together, and by tightly coupling the sealed portion 31 and the rejecting portion 21, the liquid in the cup body 10 cannot be leaked out, thereby achieving the

sealed state. Please further refer to FIG. 5B for a schematic view showing the drinkable state in a preferred embodiment according to the present invention. When the second fastening portion 32 is rotated reversely to separate from the first fastening portion 22, the sealed portion 31 and the rejecting portion 21 also are separated from each other, so that the liquid can flow out through the indentations 221, thereby achieving the drinkable state.

[0017] Besides, the cup lid 30 has plural rotary recesses 33 mounted thereon for the user to hold and rotate the cup lid 30, so that the user can fasten or separate the first fastening portion 22 and the second fastening portion 32 via rotating the rotary recesses 33. In addition, in the sealed state, because the sealed portion 31 can be a soft pad made of rubber materials, the sealed portion 31 and the rejecting portion 21 can be tightly contacted with each other without a seam therebetween, thereby preventing the liquid from flowing through between the sealed portion 31 and the rejecting portion 21.

[0018] In a conclusion, when the present invention is in the sealed state, the sealed portion 31 and the rejecting portion 21 are tightly contacted with each other to prevent leakage, and when in the drinkable state, by rotation, the first fastening portion 22 and the second fastening portion 32 are unlocked for providing a gap between the sealed portion 31 and the rejecting portion 21, so as to allow the liquid in the cup body 10 flowing out through the indentations 221 on the first fastening portion 22, thereby there is no need for the user to completely separate the cup lid 30 from the cup body 10, and the indentations 221 is plural, the user does not need to drink with the single drinking opening as the conventional drinking cup does.

[0019] It is to be understood, however, that even though numerous characteristics and advantages of the present invention have been set forth in the foregoing description, together with details of the structure and function of the invention, the disclosure is illustrative only, and changes may be made in detail, especially in matters of shape, size, and

arrangement of parts within the principles of the invention to the full extent indicated by the broad general meaning of the terms in which the appended claims are expressed.

What is claimed is:

1. A drinking cup, comprising:

a cup body, including an accommodating space for holding a liquid;

a drinking portion, which is connected with the cup body and formed to be a hollow structure, including a rejecting portion and a first fastening portion respectively extended and protruded on the inner surface thereof, wherein the first fastening portion includes plural indentations for passing through the liquid; and

a cup lid, connected with the drinking portion, including a sealed portion corresponding to the rejecting portion, and a second fastening portion for cooperating with the first fastening portion,

wherein when the second fastening portion and the first fastening portion are locked with each other, the sealed portion and the rejecting portion are tightly coupled together, thereby achieving a sealed state; when the second fastening portion is not locked with the first fastening portion, the sealed portion is separated from the rejecting portion for allowing the liquid passing through the indentations, thereby achieving a drinkable state.

2. The drinking cup as claimed in claim 1, wherein the first fastening portion and the second fastening portion respectively include threads correspondingly on the surfaces thereof for screwing with each other.

3. The drinking cup as claimed in claim 2, wherein the cup lid further includes plural rotary recesses mounted thereon for the user to hold and rotate.

4. The drinking cup as claimed in claim 1, wherein the sealed portion is a soft pad for tightly contacting with the rejecting portion.

\* \* \* \* \*