The cap of the present invention has a cap surface and an engaging portion. The engaging portion includes an annular inner wall, an annular outer wall and an upper section connecting between the inner wall and the outer wall. The outer wall includes a first section and a second section. The first section is downward extended from the upper section, and the first section has a distal end, from which the second section is extended outward and downward. At least one engaging rim is formed between the first and second sections inward. An annular engaging slot is defined between the inner wall, the first section and the upper section for the engaging lip to engage therewith. A distance between the engaging rim and the inner wall is smaller than the thickness of the engaging lip so as to prevent the engaging lip from disengaging from the engaging slot.
CAP FOR A CUP

BACKGROUND OF THE INVENTION

[0001] 1. Field of the Invention

[0002] The present invention relates to a cap for a cup.

[0003] 2. Description of the Prior Art

[0004] A cup can be enclosed by a cap. A conventional cap has an annular engaging rim extended downward to engage with an engaging lip of the cap.

[0005] When the cup is pressed to slightly deform, the engaging lip may not tightly engage with the engaging rim. As such, the contents in the cup may leak, and the cap may disengage from the cup.

[0006] The present invention is, therefore, arisen to obviate or at least mitigate the above mentioned disadvantages.

SUMMARY OF THE INVENTION

[0007] The main object of the present invention is to provide a cap that can be tightly capped on a cup.

[0008] To achieve the above and other objects, a cap of the present invention has a cap surface and an engaging portion surrounding the cap surface. The engaging portion includes an annular inner wall, an annular outer wall and an upper section connecting between the inner wall and the outer wall. A diameter of the inner wall substantially corresponds to an inner diameter of the engaging lip. The outer wall includes a first section and a second section. The first section is downward extended from the upper section, and the first section has a distal end from which the second section is extended outward and downward. At least one engaging rim is formed between the first and second sections inward. A distance between the first section and the inner wall equals to a thickness of the engaging lip. An annular engaging slot is defined between the inner wall, the first section and the upper section for the engaging lip to engage therewith. A distance between the engaging rim and the inner wall is smaller than the thickness of the engaging lip so as to prevent the engaging lip from disengaging from the engaging slot while the cap is capped on the cup.

[0009] The present invention will become more obvious from the following description when taken in connection with the accompanying drawings, which show, for purpose of illustrations only, the preferred embodiment(s) in accordance with the present invention.

BRIEF DESCRIPTION OF THE DRAWINGS

[0010] FIG. 1 is a perspective drawing showing a cap of the present invention;

[0011] FIG. 2 is a perspective drawing showing a cap of the present invention at another viewing angle;

[0012] FIG. 3 is a profile showing a cap of the present invention;

[0013] FIG. 4 is profile showing a cap of the present invention and a cup.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

[0014] Please refer to FIG. 1 to FIG. 4. The cap of the present invention is adapted to be capped on a cup, in which the cup has an annular engaging lip. In a preferred embodiment of the present invention, the cap has a cap surface and an engaging portion surrounding the cap surface.

[0015] The engaging portion includes an annular inner wall, an annular outer wall and an upper section connecting between the inner wall and the outer wall. A diameter of the inner wall substantially corresponds to an inner diameter of the engaging lip. The outer wall includes a first section and a second section. The first section is extended downward from the upper section, and the second section is extended outward from the cup.

[0016] In the present embodiment, there is only one engaging rim annularly formed between the first and second sections. That is, the engaging rim surrounds the cap surface. In other possible embodiments of the present invention, there can be a plurality of engaging rims arranged discontinuously around the engaging slot.

[0017] A distance between the first section and the inner wall equals to a thickness of the engaging lip. The annular engaging slot is defined between the inner wall, the first section and the upper section for the engaging lip to engage therewith. A distance between the engaging rim and the inner wall is smaller than the thickness of the engaging lip so as to prevent the engaging lip from disengaging from the engaging slot while the cap is capped on the cup.

[0018] In addition, a distance between the engaging rim and the inner wall is slightly smaller than the thickness of the engaging lip so as to prevent the engaging lip from disengaging from the engaging slot while the cap is capped on the cup. Preferably, a distance between the engaging rim and the upper section equals to a height of the engaging lip.

[0019] Thereby, the inner wall and the outer wall can tightly clamp the engaging lip as the lip is received in the engaging slot. The engaging rim is further designed to prevent the engaging lip from slipping out of the engaging slot. Even if the cup is pressed to slightly deform, the engaging lip can be still be entirely surrounded by the engaging slot. As such, the engaging lip will have minimum deformation and be tightly engaged with the engaging slot. For guiding purposes, the largest diameter of the second section is preferably bigger than that of the engaging lip, so that the engaging lip can be guided by the second section when the engaging lip is to engage with the engaging slot.

[0020] Further because the inner wall can tightly abut against the inner surface of the cup, the cup with the cap can, therefore, have better anti-leakage ability. That is, the contents in the cup can hardly leak through the gap between the cap and the cup.
What is claimed is:

1. A cap for a cup which has an engaging lip, wherein the cap has a cap surface and an engaging portion surrounding the cap surface, the engaging portion comprises an annular inner wall, an annular outer wall and an upper section connecting between the inner wall and the outer wall, a diameter of the inner wall substantially corresponds to an inner diameter of the engaging lip, the outer wall comprises a first section and a second section, the first section is downward extended from the upper section, and the first section has a distal end, the second section is extended from the distal end of the first section outward and downward, at least one engaging rim is formed between the first and second sections inward;

2. The cap of claim 1, wherein a distance between the engaging rim and the inner wall is smaller than the thickness of the engaging lip so as to prevent the engaging lip from disengaging from the engaging slot while the cap is capped on the cup.

3. The cap of claim 1, wherein a plurality of engaging rims are formed between the first and second sections, the engaging rims are arranged discontinuously around the engaging slot.

4. The cap of claim 1, wherein a distance between the engaging rim and the upper section equals to a height of the engaging lip.

5. The cap of claim 1, wherein a largest diameter of the second section is bigger than that of the engaging lip, so that the engaging lip can be guided by the second section when the engaging lip is to engage with the engaging slot.