

No. 879,753.

PATENTED FEB. 18, 1908.

W. A. ECKERT.
COLLAPSIBLE CUP.
APPLICATION FILED JAN. 12, 1906.

Fig. 1.

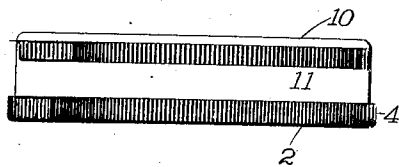


Fig. 2.

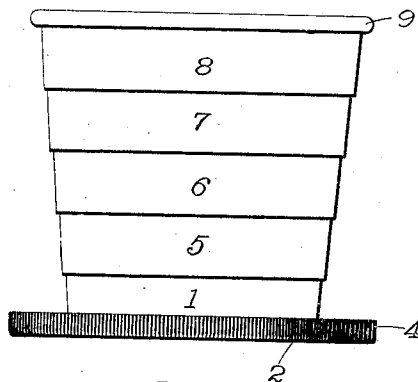


Fig. 3.

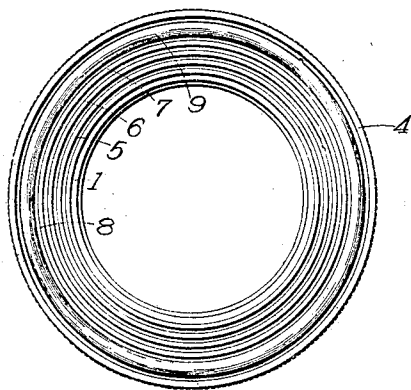
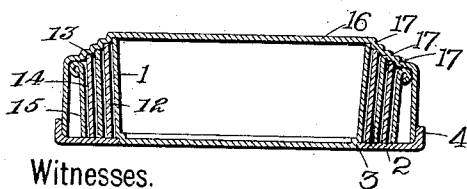


Fig. 7.



Witnesses.

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Fig. 4.

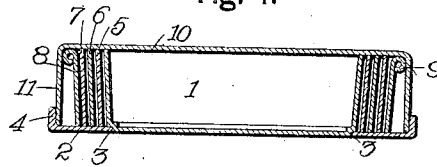


Fig. 5.

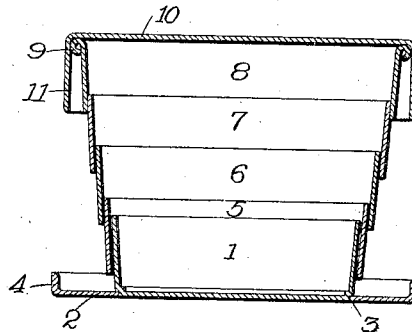
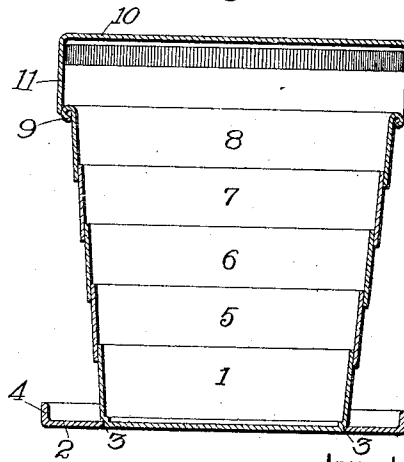


Fig. 6.



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UNITED STATES PATENT OFFICE.

WILLIAM A. ECKERT, OF BUFFALO, NEW YORK.

COLLAPSIBLE CUP.

No. 879,753.

Specification of Letters Patent.

Patented Feb. 18, 1908.

Application filed January 12, 1906. Serial No. 295,735.

To all whom it may concern:

Be it known that I, WILLIAM A. ECKERT, a citizen of the United States, residing at Buffalo, in the county of Erie and State of New York, have invented a certain new and useful Improvement in Collapsible Cups, of which the following is a specification.

This invention relates to an improved collapsible drinking cup, and the main objects of the invention are to facilitate the opening of the cup, and to prevent the members thereof rattling when the cup is collapsed.

The invention also relates to certain details of construction all of which will be fully and clearly hereinafter described and claimed reference being had to the accompanying drawings, in which,—

Figure 1, is a side view of the improved collapsible cup showing said cup collapsed or folded. Fig. 2, is a side view of the improved collapsible cup showing the cup open or extended and the cover removed. Fig. 3, is a top plan view of the improved collapsible cup, the cup being folded or collapsed and the cover removed. Fig. 4, is a central vertical section through the improved collapsible cup, showing the cup folded and the cover in place. Fig. 5, is a view similar to Fig. 4, showing the cup partially open. Fig. 6, is a view similar to Fig. 5, showing the cup fully extended and the cover just being withdrawn. Fig. 7, is a central vertical section through another form of the improved collapsible cup, in which the ring like members are made of different widths and the cover provided with annular ridges.

The cup comprises a foot or base, a series of tapering rings and a top cover, the flange of which is so formed that it will fit snugly around and frictionally engage the top tapering ring sufficiently to enable a person to completely open the cup by simply removing the cover or separating the foot and cover.

The bottom member 1, of the cup is of a dish like form and an annular foot 2, is secured thereto around the bottom edge, being fitted firmly in a groove 3, in the edge. The outer edge 4, of the foot is flanged upwardly.

A series of tapering ring like or annular members constitute the body of the cup and are arranged so that they can be drawn upwardly to bring their tapering surfaces into tight frictional engagement and thereby form a practically water tight cup, or closed together in loose concentric position to form a

flat object which may be conveniently placed in a person's pocket.

In one of the adaptations shown in the drawings besides the bottom member 1, four of the tapering telescopic annular members are employed which are respectively designated by the numerals 5, 6, 7 and 8. The top member 8, is preferably provided with a beaded top edge 9, to strengthen it and a flanged cover 10, has its annular flange 11, shaped to fit snugly over and frictionally engage with the top bead 9, of the top member 8. Rattling is practically prevented in this adaptation of the invention by the close fit of the cover upon the members when closed. In the other adaptation four ring like members are also employed, numbered respectively 12, 13, 14 and 15, which are of differing widths and the cover 16, has its face formed with a series of annular ridges 17, to provide shoulders which will fit around the ring like members when the cup is collapsed to prevent rattling.

The opening of the cup is accomplished by a person taking the foot in the fingers of one hand and the cover in the fingers of the other hand and then separating them.

To close the cup, place the cover upon the top ring member and force it toward the foot.

The flange of the foot and the flange of the cover are both milled to provide a better grasp for the fingers.

The milling of the flange of the cover is made deep enough to indent it through slightly on the inner surface of the flange and thereby slightly reduce the flange in circumference beneath the milling. The advantage of this is that a firm and better frictional engagement is obtained between the cover and the top ring like member so that the telescopic members of the collapsible body are drawn out into tight position by the movement of the cover from the base.

It will be noted by referring to Fig. 6, that the interior milling of the flange of the cover is at or near the top margin of the flange so that when the cover is fitted upon the collapsed cup, the milled part will be in frictional engagement with the beaded top edge of the top ring like member. Owing to this any movement of the cover tending to separate it from the base will also move the top member and instantly open the cup.

I claim as my invention.

1. An improved collapsible cup comprising a base, a series of telescopic tapering rings on

said base, the top ring having a beaded edge and a flanged cover having the top portion of the flange interiorly milled and adapted to frictionally engage the beaded top edge of the top ring when the cup is collapsed and the flanged cover fitted thereon, whereby the cup is instantly opened by a separating movement of the cover, substantially as set forth.

2. A collapsible cup comprising a base, a foot secured to the base and having an upwardly extending flange, a series of telescopic ring like members upon the base and a cover

having a flange adapted to completely inclose the telescopic members when collapsed and to fit within the flange of the foot; the flange of said cover being milled sufficiently deep to provide both an outer roughened surface for the convenient grasp of the operator and an inner roughened surface for frictional engagement with the top ring like member.

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Witnesses:

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