July 19, 1927. 1,636,323

C. E. RAND

COLLAPSIBLE SHAVING CUP

Filed Dec. 30, 1925

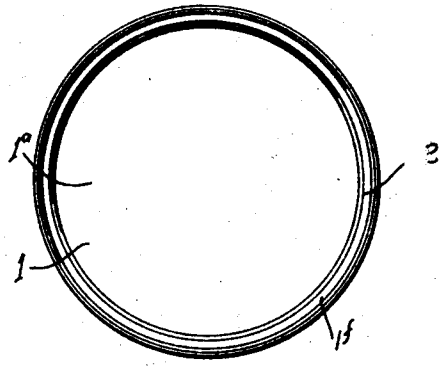


FIG. 2

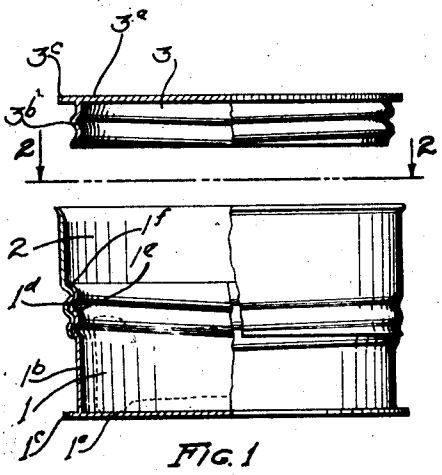


FIG. 1

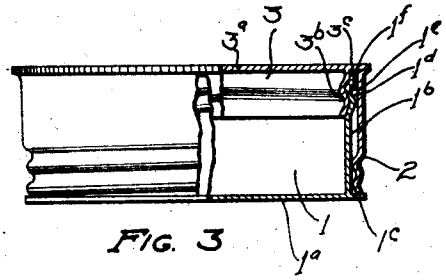


FIG. 3

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CHARLES E. RAND, OF SAN DIEGO, CALIFORNIA.

COLLAPSIBLE SHAVING CUP.

Application filed December 30, 1925. Serial No. 78,435.

My invention relates to collapsible cups, particularly to collapsible cups adapted for use as shaving cups, and the objects of my invention are: first, to provide a collapsible cup which may be longitudinally extended to provide a relatively deep, rigid, water-tight cup or receptacle, and which may also be readily collapsed into a neat, rigid container or parcel; second, to provide a collapsible cup of this class which, when collapsed, will provide a convenient container for carrying shaving soap; third, to provide a cup of this class which, when collapsed and secured in collapsed form, cannot be readily extended of itself; fourth, to provide a collapsible cup of this class consisting preferably of only three members, namely, a base, an upper member and a cover, the base being provided with an upwardly extending, cylindrical portion having external and internal threads at its upper end, the external threads being adapted to secure the upper member in an extended position relatively thereto and the internal threads being adapted to receive the cover when the cup is collapsed to form a cover for the same and to secure the upper cup member rigidly to the base member; fifth, to provide a cup of this class in which the upper cup member may be readily locked in an extended position relatively to the base member against an outwardly turned flange at the upper end of the base member, which flange portion permits a water-tight seal to be formed between the base member and the upper cup member at the joint; sixth, to provide as a whole a novelty constructed collapsible cup, and seventh, to provide a cup of this class which is simple and economical of construction, durable, and which will not readily deteriorate or get out of order.

With these and other objects in view, as will appear hereinafter, my invention consists of certain novel features of construction, combination and arrangement of parts and portions, as will be hereinafter described in detail and particularly set forth in the appended claims, reference being had to the accompanying drawings and to the characters of reference thereon, which form a part of this application, in which:

Figure 1 is a side elevational view of my collapsible cup extended for use, with the cover positioned above the same, a portion of the cup proper and of the cover being broken away and shown in section to facilitate the illustration, a shaving soap cake being shown by dotted lines within the cup; Fig. 2 is a top view of the shaving cup extended without the cover, the view being taken at 2—2 of Fig. 1, and Fig. 3 is a side elevational view of the cup collapsed with the cover secured over the open end thereof, a portion of the cup members and cover being broken away and in section to facilitate the illustration.

Like characters of reference refer to similar parts and portions throughout the several views of the drawings.

My collapsible cup structure consists preferably of only three members, namely, a base member 1, an upper cup member 2, and a cover 3. The base member 1 consists of a bottom portion 1^a and a cylindrical portion 1^b extending upwardly from the base portion 1^a from near the periphery thereof, there being provided, however, an annular flange 1^c as an extension of the bottom portion 1^a, which flange extends beyond the periphery of the cylindrical portion 1^b. The upper end of the cylindrical portion 1^b is provided with external threads 1^d and internal threads 1^e, which threads are preferably formed by rolling the same into the cylindrical portion, thus providing simultaneously, inner and outer threads. The upper end of the cylindrical portion 1^b is preferably rolled outwardly so that the outer diameter at the upper end is larger than the outer diameter of the external threads. The upper cup member 2 is a cylindrical member provided with threads at the inner side of its lower end, which threads are adapted to engage the external threads 1^d when the cup is extended. The intermediate portion of the upper cup member is preferably plain, the inside diameter thereof being slightly larger than the outer diameter of the upper outwardly rolled portion 1^f of the base member 1. The outwardly rolled portion or flange 1^f at the upper end of the base member is adapted to engage the inside of the upper threaded portion of the cup member 2 to limit the outward extension of the cup member 2 relatively to the base member, and also to seal the joint between said members. The flange portion 1^f, however, does not prevent the upper cup member 2 from being shifted downwardly or telescoped around the cylindrical portion of the base member. The cover 3 consists of a plate portion 3^a which is provided near its periphery with a down-

wardly extending cylindrical portion 3^b, which is externally threaded to receive the internal threads 1^e of the base member 1. The cylindrical portion 3^b of the cover is also preferably rolled to form the threads. The plate portion 3^a of the cover is preferably extended beyond the outer diameter of the cylindrical portion 3^b, forming an annular flange 3^c. When the cup is collapsed, as shown in Fig. 3 of the drawings, the upper cup member 2 is clamped between the adjacent sides of the annular flange 1^c of the base member and the annular flange 3^c of the cover, as shown. When the cup is collapsed, the inner portions of the threads of the upper cup member 2 engage preferably the outer side of the cylindrical portion 1^b of the base member and the outside portion of the flange 1^f engages the inside surface of the plain portion of the upper cup member so as to provide a non-rattling structure when the cup is collapsed. The cup, when collapsed, provides a convenient container for carrying the shaving soap, as shown by dotted lines in Fig. 1.

It will be here noted that when the cup is collapsed and the cover secured in place, a tight compartment is formed between the base member 1 and the cover only, the annular extension member or upper cup member forming no part of the container when the cup is collapsed.

It will be also noted that if it is desired to construct a deeper container than shown, the cylindrical portion 1^b and the member 2 may be considerably lengthened or a plurality of such telescoping members 2 may be employed.

Though I have shown and described a particular construction, combination and arrangement of parts and portions, I do not wish to be limited to this particular construction, combination and arrangement, but desire to include in the scope of my invention, the construction, combination and arrangement substantially as set forth in the appended claims.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

1. In a collapsible container, a base member having an upwardly extending container portion provided at its upper end with conforming inner and outer threads, an annular extension member positioned in telescopic relation to the container portion of said base member and provided with threads at its lower end adapted to engage the threads at one side of the upper end of said container portion for holding said extension member in extended relation therewith, and a cover provided with threads at its lower portion adapted to engage the threads at the other side of the upper end of the container portion when said extension member is collapsed relative to the container portion and form with the latter a tight container.

2. In a collapsible container, a base member having a container portion, an annular extension member, the former being provided with external threads at its upper end and the latter being provided with internal threads at its lower end whereby said members may be locked in extended relation with each other, said extension member being adapted to telescope around the container portion of the base member, forming a low container, and a cover having an externally threaded portion at its lower side adapted to be screwed into the upper end of the container portion of the base member.

3. In a collapsible container, a base member having a container portion, an annular extension member, the former being provided with external threads at its upper end and the latter being provided with internal threads at its lower end whereby said members may be locked in extended relation with each other, said extension member being adapted to telescope around the container portion of the base member, forming a low container, and a cover having an externally threaded portion at its lower side adapted to be screwed into the upper end of the container portion of the base member, said base member and said cover being provided with outwardly extending annular flanges respectively at their lower and upper portions, said annular extension member being adapted to be clamped between said flanges when the container is collapsed.

4. In a collapsible container, a base member having a container portion, and an annular extension member positioned around the container portion of said base member and adapted to be longitudinally extended relatively thereto and retained in said extended relation with its lower end in engagement with the upper end of said container portion, and a cover provided with an externally threaded portion at its lower side adapted to be screwed into an internally threaded portion at the upper end of said container portion, forming a tight container with the base member when said annular extension member is collapsed around the container portion thereof.

5. In a collapsible container, a base member having a container portion, and an annular extension member positioned around the container portion of said base member and adapted to be longitudinally extended relatively thereto and retained in said extended relation with its lower end in engagement with the upper end of said container portion, and a cover adapted to be secured to the upper end of the container portion of the base member forming a tight container therewith when said annular extension member is collapsed around the container portion thereof.

6. In a collapsible container, a base member having a container portion, and an annular extension member positioned around the container portion of said base member and adapted to be longitudinally extended relatively thereto and retained in said extended relation with its lower end in engagement with the upper end of said container portion, and a cover adapted to be secured to the upper end of the container portion of the base member forming a tight container therewith when said annular extension member is collapsed around the container portion thereof, said base member and said cover being provided with outwardly extending annular flanges respectively at their lower and upper portions, said annular extension member being adapted to be clamped between said flanges when the container is collapsed.

7. In a collapsible container, a base member having an upwardly extending container portion provided at its upper end with conforming inner and outer threads, an extension member provided at its lower end with internal threads adapted to engage the threads at the outer side of the upper end of the container portion for holding the extension member in extended relation therewith, and a cover provided at its lower side with an externally threaded portion adapted to engage the threads at the upper end of the inside of said container portion when the extension member is collapsed relative to the container portion and form with the latter a tight container.

8. In a collapsible container, a base member having an upwardly extending cylindrical container portion provided at its upper end with conforming inner and outer threads and at its extreme upper end with a small outwardly extending flange portion, an annular extension member positioned exteriorly of said cylindrical container portion and provided at its lower end with internal threads and above the threaded portion with an annular flange bearing shoulder, said annular extension member being adapted to be longitudinally extended relatively to said container portion with its internal threads adapted to engage the external threads of the container portion and the small annular flange thereof adapted to seat against the shoulder of the latter, and a cover provided with external threads at its lower portion adapted to be screwed into the internal threads at the upper end of the container portion, forming a container with the base member when said annular extension member is collapsed relatively thereto, said base member and said cover being provided with outwardly extending annular flanges respectively at their lower and upper portions, said annular extension member being adapted to be clamped between said flanges when the container is collapsed.

9. In a collapsible container, a base member having a container portion, an annular extension member telescopically mounted relatively to the container portion of the former for extending the container portion and for collapsing the extension member relatively thereto, and a cover adapted to be secured to the upper end of the container portion of the base member forming a container therewith when said annular extension member is collapsed relatively thereto, said base member being provided at the lower portion of its outer side with means for retaining the extension member when the same is collapsed relatively to the base member, said cover being provided with means at the upper portion of its outer side for engaging said extension member when said container is collapsed.

In testimony whereof, I have hereunto set my hand at San Diego, California, this 19th day of December, 1925.

CHARLES E. RAND.