Feb. 12, 1924. 1,483,498

F. ZOLNEREVICH

FILTERING DRINKING CUP

Filed Dec. 22, 1921

FIG. 1

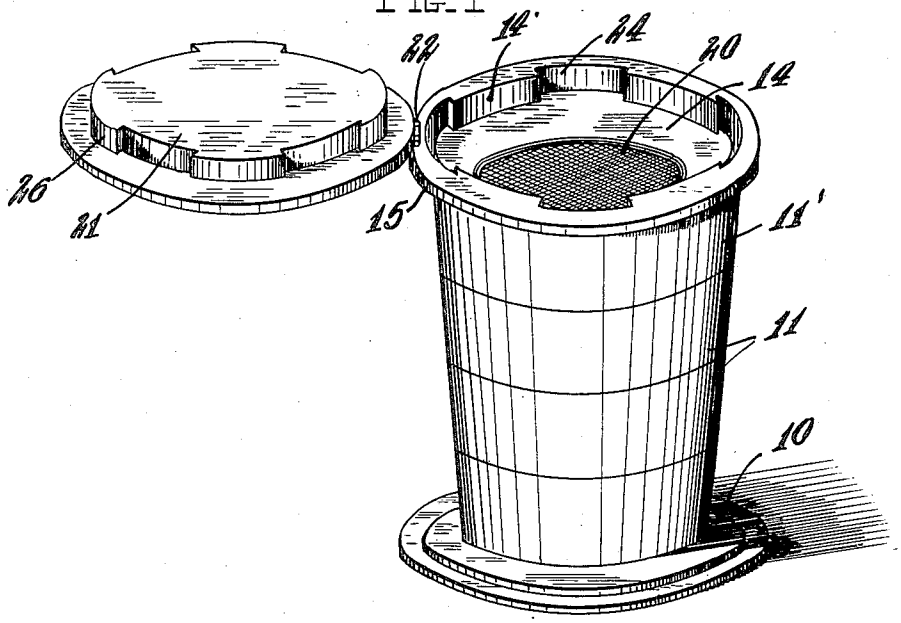


FIG. 2

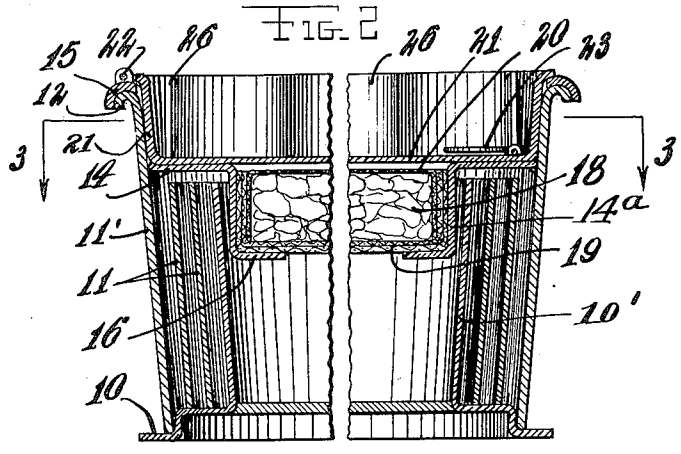
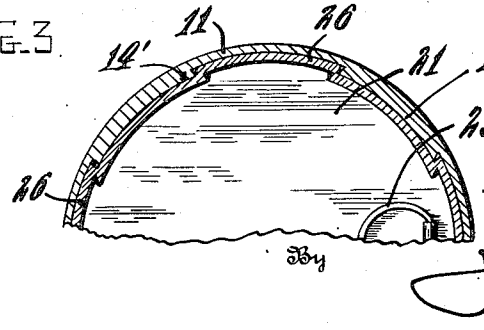


FIG. 3



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Patented Feb. 12, 1924. 1,483,498

UNITED STATES PATENT OFFICE.

FOMA ZOLNEREVICH, OF DETROIT, MICHIGAN.

FILTERING DRINKING CUP.

Application filed December 22, 1921. Serial No. 524,060.

To all whom it may concern:

Be it known that I, FOMA ZOLNEREVICH, citizen of Russia, residing at 9656 Dyer St., Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Filtering Drinking Cups, of which the following is a specification.

This invention relates to travelers' drinking cups, the invention being intended more particularly for embodiment in travelers' drinking cups comprising a series of telescopic sections.

The invention has for an object to provide a drinking cup of this type having conveniently embodied therewith a filtering medium whereby the water entering the cup for drinking purposes may be filtered.

For further comprehension of the invention, and of the objects and advantages thereof, references will be had to the following description and accompanying drawings, and to the appended claims in which the various novel features of the invention are more particularly set forth.

Fig. 1 of the drawings is a perspective view of my improved drinking cup, with the cover thrown back.

Fig. 2 is an axial vertical sectional view of the cup, showing it in collapsed position and with the cover closed.

Fig. 3 is a fragmentary horizontal section, taken on the line 3—3 of Fig. 2.

In constructing my improved cup I provide a base element 10 formed with an upwardly projecting annular flange 10′ and telescopic rings 11, the upper ring, indicated specifically at 11′, having a projecting bead 12 at its upper edge. Fitting on this top ring 11′ is a stepped ring 14 having a downwardly projecting outer flange 15 which engages over the bead 12. This ring 14 presents an upper portion 14′ fitting snugly in the said ring 11′, and a lower depending portion 14^a which is inwardly offset sufficiently to engage within the flange on the base element 10 of the cup. The lower ring portion 14^a has an inturned flange 16 at its bottom on which the filter member seats. This filter member comprises a charcoal disk 18 having its bottom covered with a double thickness of cheese cloth or the like as at 19, and its top with a single thickness 20. The filter member may be held in place by frictional engagement with the ring element 14^a.

The cup is provided with a cover 21 which is shaped to fit in the top ring part 14′, being hinged at one side to the top of this ring as at 22. A small finger ring 23 may be hinged to the cover adjacent the opposite side thereof.

The ring element 14′ is cut out at evenly spaced intervals as at 24 while the registering flange of the cover 21 is formed with complementary pressed out portions 26 which fit in said cut out openings and frictionally engage the cup ring 11′ acting both to hold the cover in place and also the filter ring 14. The frictional engagement between these cover portions 26 and the cup ring 11′ may be greater than that between the flanges 12 and 15 of the rings 11′ and 14.

When it is desired to use the cup the flange 15 is gripped by the tips of the fingers of one hand and the finger ring 23 is pulled by the other hand to lift the cover. The cup is then expanded and filled with water, after which the filter ring, carrying with it the filter member, and also the cover 21, is lifted from the cup. When use of the cup is finished the filter member is replaced, and the cover closed.

Having thus described my invention what I claim as new and desire to protect by Letters Patent of the United States is as follows:

1. In combination, a cup, a ring fitting in said cup, a filter member carried by said ring, and a cover hinged to said ring and adapted to frictionally engage the inner face of the cup, said ring having cut out portions through which said cover projects into engagement with the cup.

2. In combination, a cup, a stepped ring fitting snugly in said cup and having a top flange engaging over the top of the cup, a filter member carried in said ring, said ring having a number of cut out portions extending downward from the top thereof, a cover hinged to said top flange and presenting portions adapted to project through said cut out portions in the ring into frictional engagement with the cup.

3. In combination, a cup comprising a series of telescopic sections, a stepped ring having an upper element fitting snugly in the upper one of said sections and an inwardly offset lower element, a filter member seated in said lower element, a cover adapted to fit in said upper ring element, said upper ring element having a number of cut out por-

tions extending the full height thereof, and said cover having corresponding projections adapted to project radially into said cut out portions and frictionally engage the upper cup section.

4. In combination, a cup comprising a series of telescopic sections, a stepped ring having an upper element fitting snugly in the upper one of said sections and an inwardly offset lower element, a filter member seated in said lower element, a cover adapted to fit in said upper ring element, said upper ring element having a number of cut out portions extending the full height thereof, said cover having corresponding projections adapted to project radially into said cut out portions and frictionally engage the upper cup section, said ring having a downwardly depending top flange fitting over the said upper cup section.

5. In combination, a cup comprising a series of telescopic sections, a stepped ring having an upper element fitting snugly in the upper one of said sections and an inwardly offset lower element, a filter member seated in said lower element, a cover adapted to fit in said upper ring element, said upper ring element having a number of cut out portions extending the full height thereof, said cover having corresponding projections adapted to project radially into said cut out portions and frictionally engage the upper cup section, said ring having a downwardly depending top flange fitting over the said upper cup section, said cover being hinged to said ring.

In testimony whereof I have affixed my signature.

FOMA ZOLNEREVICH.