

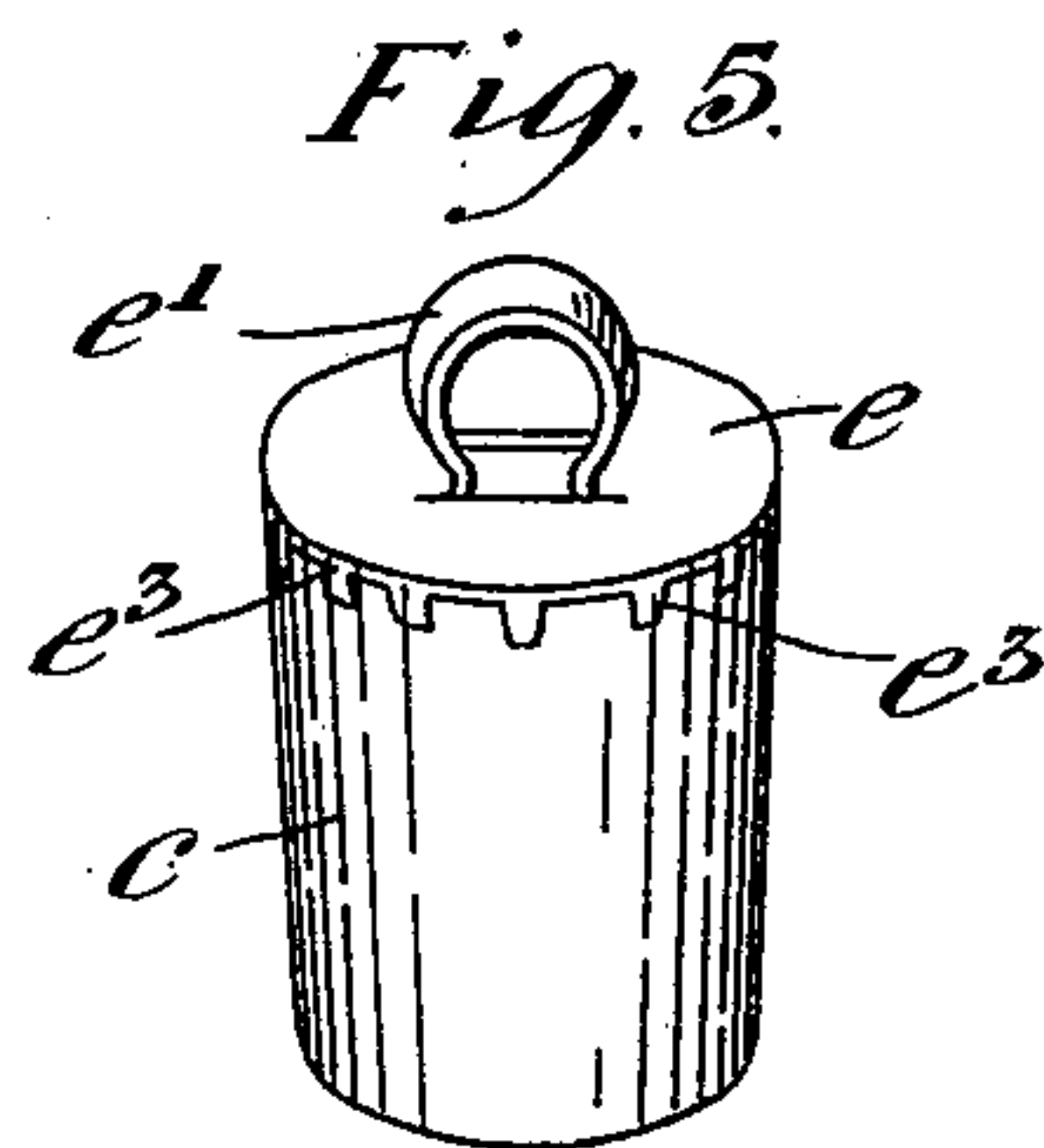
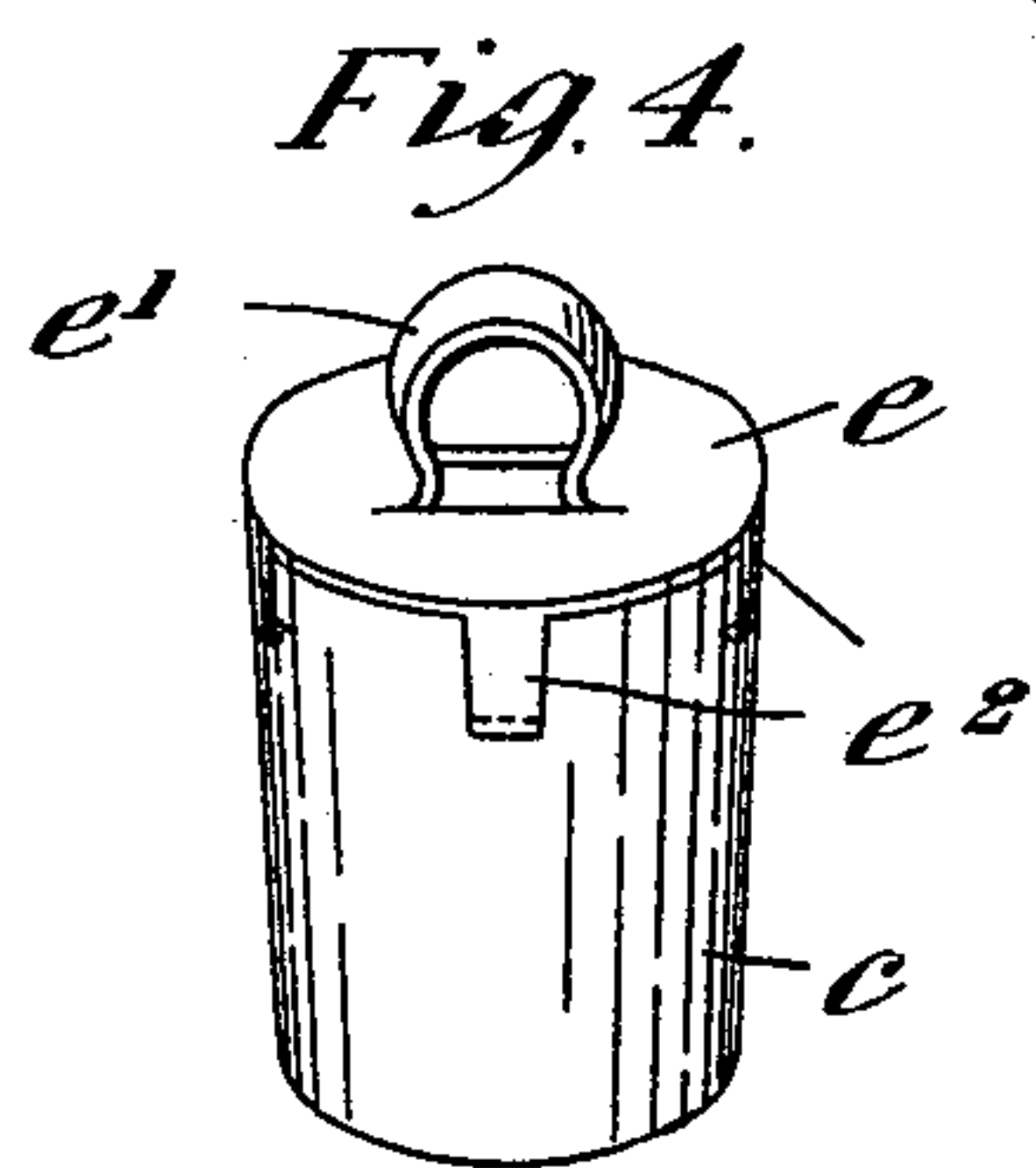
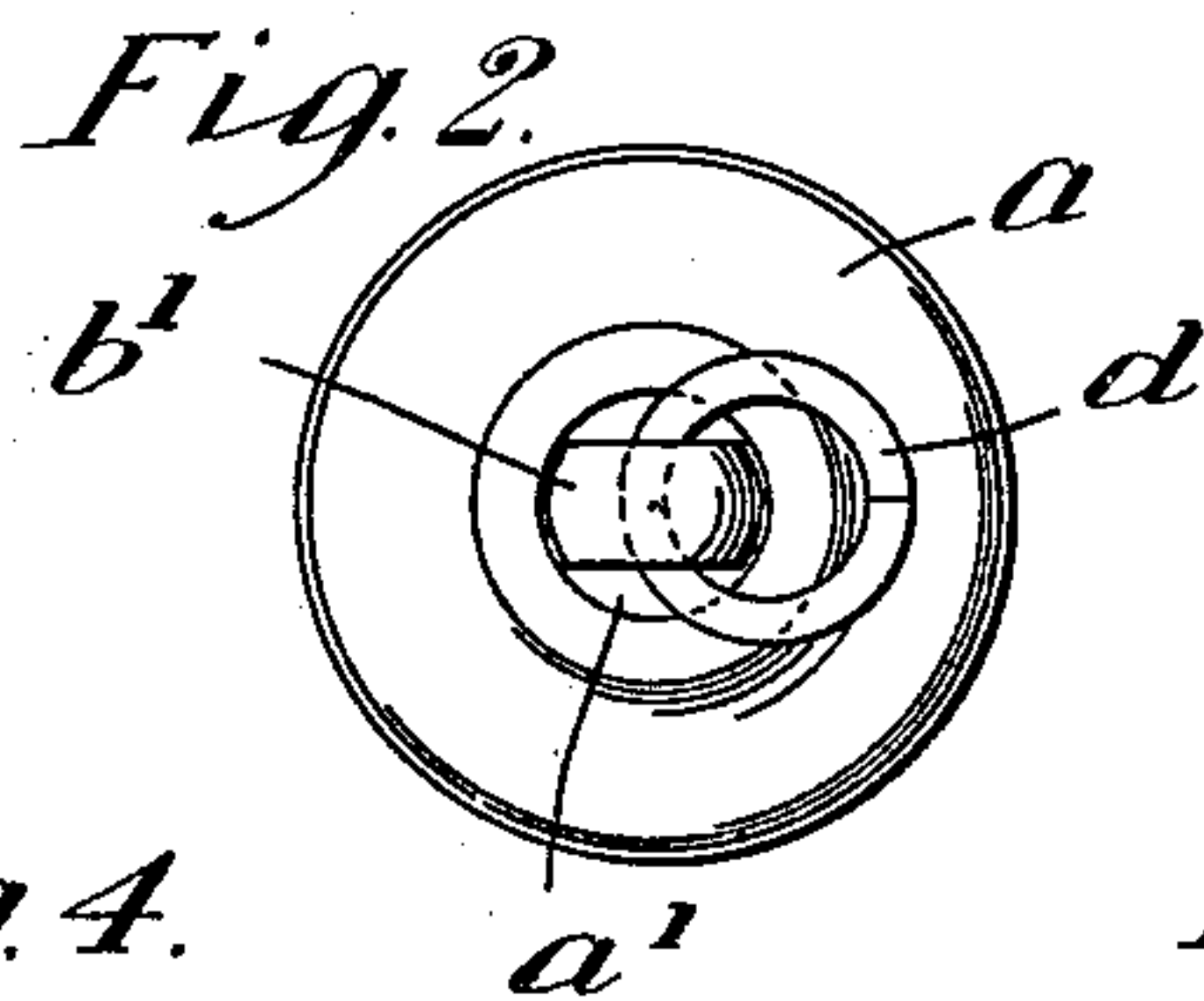
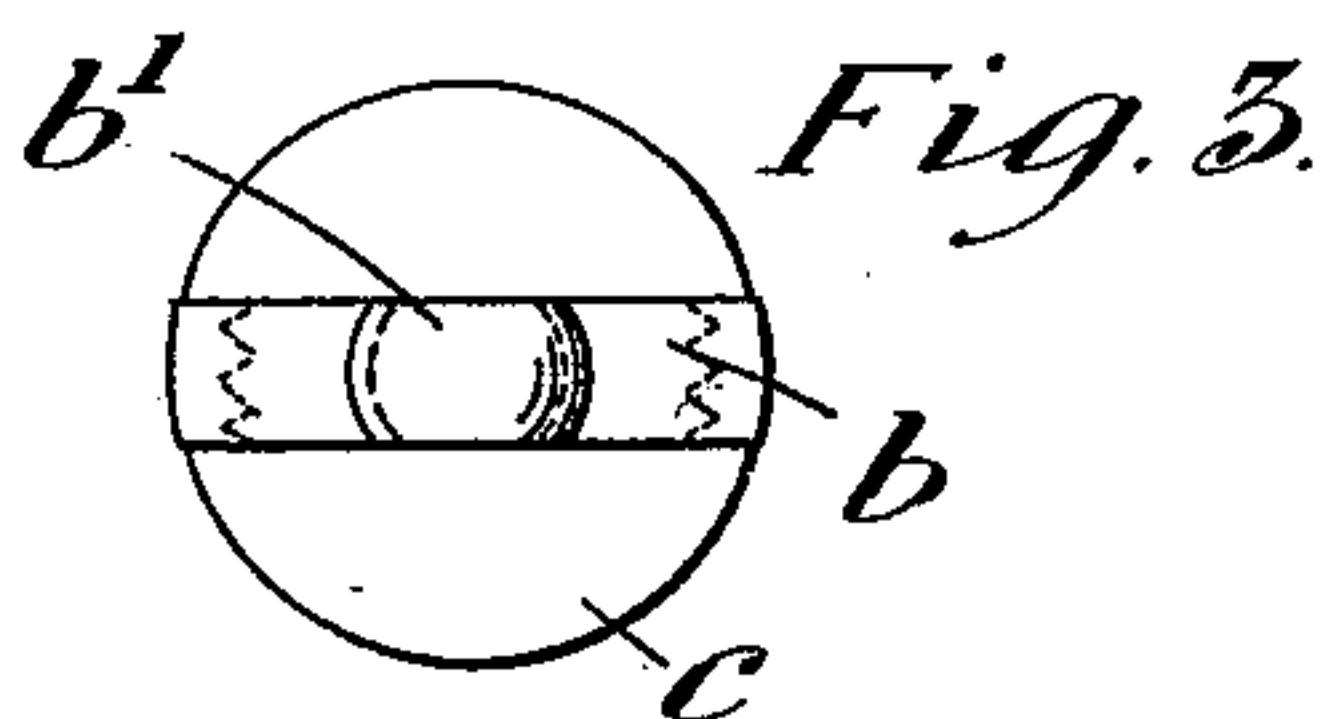
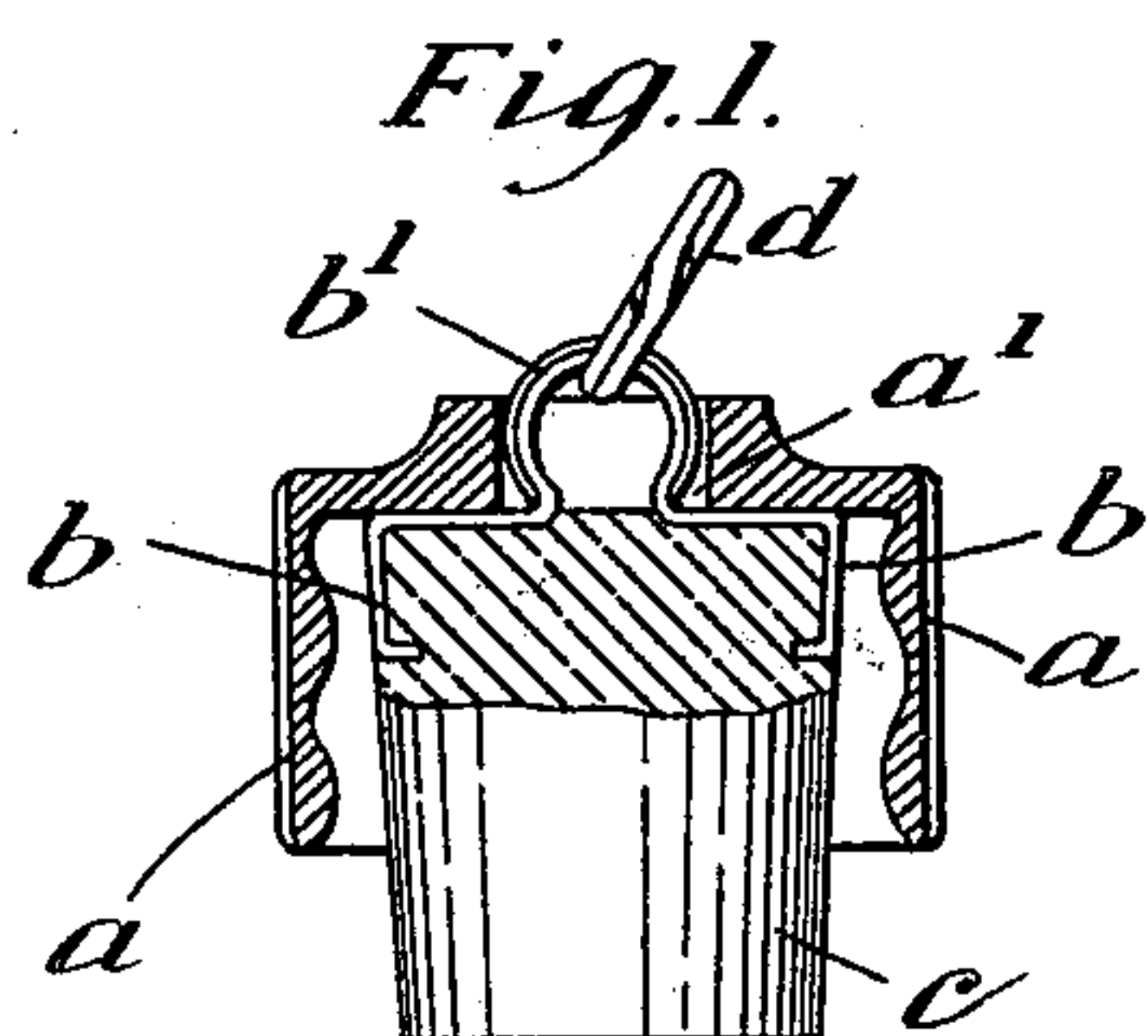
No. 635,398.

Patented Oct. 24, 1899.

F. W. SCHROEDER.
BOTTLE STOPPER.

(Application filed July 11, 1899.)

(No Model.)



Witnesses

A. M. Corum
Warren W. Swartz

Inventor

F. W. Schroeder
by Makinor & Makinor
his attys

UNITED STATES PATENT OFFICE.

FREDERICK W. SCHROEDER, OF LONDON, ENGLAND, ASSIGNOR OF ONE-HALF TO PATRICK WILLIAM MORAN, OF SAME PLACE.

BOTTLE-STOPPER.

SPECIFICATION forming part of Letters Patent No. 635,398, dated October 24, 1899.

Application filed July 11, 1899. Serial No. 723,454. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK WILLIAM SCHROEDER, a citizen of the United States of America, residing at No. 30 Maiden Lane, Strand, London, England, have invented certain new and useful Improvements in Bottle-Stoppers, (for which application has been made for a patent in Great Britain, dated May 17, 1899, No. 10,387,) of which the following is a specification.

My invention relates to bottle-stoppers in which a cork is rotatably connected to a screw-cap that is adapted to screw with an internal screw-thread onto an external screw-thread formed on the neck of the bottle, so that on screwing the cap onto the neck of the bottle the cork is forced in without being turned with the cap.

My present invention has for its object to simplify the construction of such stoppers; and it consists in securing to the upper end of the cork a metal strip or plate which has at its middle an upward-projecting loop which is passed through a central hole of the screw-cap and has a metal ring passed through its end that projects beyond the cap. Thus the ring effectually secures the cork in the cap, while the latter can be turned around freely on the loop.

Figure 1 of the accompanying drawings shows a vertical section of a stopper constructed according to my invention. Fig. 2 shows a plan, and Fig. 3 shows a plan of the cork detached. Figs. 4 and 5 show modifications.

The cap *a*, which may be of aluminium or other suitable metal or material, has an internal screw-thread for screwing onto the neck of a bottle and a central hole *a'*, through which is passed the loop *b'* of a band of metal *b*, secured to the cork *c*, the loop *b'* being secured in the cap by having a metal ring *d*

passed through it. This ring may either be an ordinary split spring-ring, as shown at Fig. 1, or it may be of solid metal, as at Fig. 2. The metal band *b* is secured to the cork by being bent down a short distance over its sides and having its serrated ends driven into the cork, as shown.

It will be seen that the above-described construction affords an exceedingly simple but effective rotatable connection between the cork and the cap, so that on screwing the cap onto a bottle-neck the cork is forced into the latter without rotation. Should at any time the cork become defective and require renewal, this can be readily effected by simply removing the ring *d* from the loop *b'*.

In place of the band *b* a disk *e*, Fig. 4, may be employed, having a loop *e'* formed thereon by stamping, as shown, and having either two, three, or more serrated claws *e²*, that are driven into the cork *c*, as shown, or the disk may have a number of teeth *e³*, as at Fig. 5, that are driven into the cork.

Having thus described the nature of this invention and the best means I know of carrying the same into practical effect, I claim—

A bottle-stopper consisting of the combination of a screw-cap adapted to screw onto the neck of a bottle and a cork to which is secured a metal plate having a loop formed thereon which is passed through a central hole in the cap and is secured therein by having a metal ring passed through it substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

FREDERICK W. SCHROEDER.

Witnesses:

JOSEPH LAKE,
GERALD L. SMITH.