

W. J. KERSHAW.
BOTTLE STOPPER.
APPLICATION FILED JUNE 27, 1911.

1,050,549.

Patented Jan. 14, 1913.

Fig. 1.

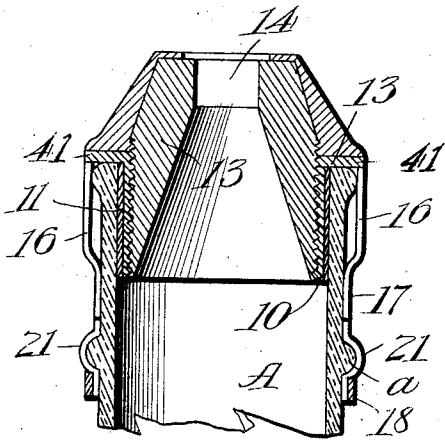


Fig. 3.

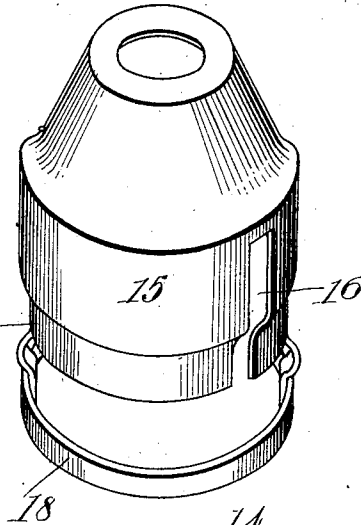


Fig. 2.

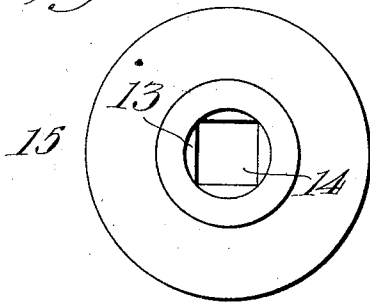


Fig. 4.

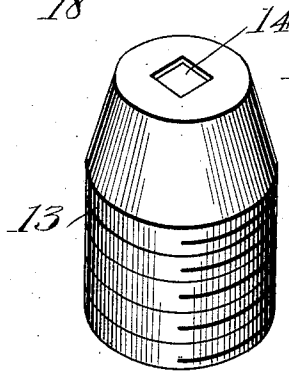


Fig. 6.

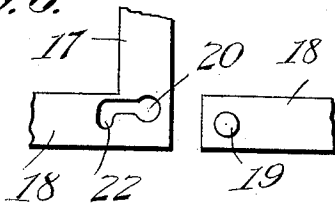
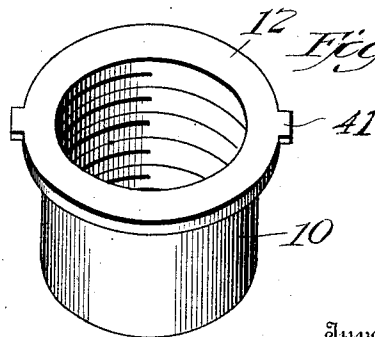


Fig. 5.



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WILLIAM J. KERSHAW, OF PORTSMOUTH, NEW HAMPSHIRE.

BOTTLE-STOPPER.

1,050,549.

Specification of Letters Patent.

Patented Jan. 14, 1913.

Application filed June 27, 1911. Serial No. 635,639.

To all whom it may concern:

Be it known that I, WILLIAM J. KERSHAW, a citizen of the United States, residing at Portsmouth, in the county of Rockingham and State of New Hampshire, have invented certain new and useful Improvements in Bottle-Stoppers, of which the following is a specification.

The object of my said invention is to provide a closure for the mouths, or necks, of catsup bottles and bottles of like character which will prevent the wasteful use of the contents, and it consists in a special form of stopper by the use of which the discharge opening from the bottle is reduced to a point where the contents will discharge only under force and slowly, and it consists further in providing means for removably securing such stopper in position so that it may be transferred from one bottle to another, all as will be hereinafter more fully described and claimed.

Referring to the accompanying drawings which are made a part hereof and on which similar reference characters indicate similar parts, Figure 1 is a sectional view through the neck of a bottle provided with my improved closure, or stopper, Fig. 2 a top or plan view thereof, Fig. 3 a perspective view of the retaining shell, and Figs. 4, 5 and 6 detail views illustrating parts separately.

The structure comprises a sleeve or cylindrical part 10 adapted to fit snugly inside the mouth of the stopper. Said part is preferably of metal formed with internal screw-threads and with its exterior covered with a band of cork, rubber, or similar packing material, to prevent leakage between the parts. It is also formed with a flange 12, which extends across the top of the bottle and limits its inward movement. Ears 41 are formed on said flange for a purpose to be presently described.

The part 13 is exteriorly screw-threaded and adapted to screw into the part 10 and formed to extend a distance above the top of the bottle, its outer surface from a point just above the top part 10 being slightly tapered toward the top. It is formed with a central aperture the lower portion of which is cone-shaped and terminating in a discharge opening 14 at the top. The top of said opening is preferably square, or rectangular, for the purpose of inserting a key of similar form for throwing the same into the part 10, or remove it therefrom.

The retaining shell 15 is adapted to fit over the top of part 13 and extend below the top of the bottle, having notches 16 which are adapted to slide over the ears 41 on the flange 12 of the part 10. Depending arms 17 hang from said shell 15 and carry a ring 18 on their lower ends. Said ring is divided on one side, one of the ends being formed with a button 19 adapted to be inserted in a slot 20 in the other end for locking the band closed. The arms 17 are formed with bulged out portions 21 adapted to fit over the usual flange *a*, on the exterior of the neck of the bottle A and the band or ring 18 fastens under said flange.

It will be understood, of course, that the arms 17 may be made of various lengths and the position of the engaging portion 21 located to correspond with the position of the flange *a* on the neck of the bottle with which it is to be used. Such bottles are made of several standard styles and this closure device can be readily adapted in proportions to fit any of said styles, the principal features of structure being the same regardless of proportions required for the special styles of bottle with which it is to be used.

In use the part 10 is first slid into the neck of the bottle until the flange 12 rests upon the top thereof, the packing material 11 being compressed to form a tight joint and hold said part 10 firmly in position. The part 13 is then inserted and screwed down to place by means of any ordinary form of key having a shank adapted to fit the aperture 14. The retaining shell 15 is then put in place with the notches 16 fitting over the ears 41. The engaging portions 21 of the arm 17 embrace the flange *a*, and the band 18 on the lower end is brought together under said flange *a* and the button 19 inserted in the slot 20 and slid to its hook-shaped end 22, which will serve to lock the parts and prevent their removal.

By the use of this stopper, or closure, the contents of the bottle is discharged by shaking and its wasteful use is largely prevented.

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

1. A bottle stopper comprising a cylindrical part fitted into the top of the bottle neck and formed interiorly screw-threaded, a stopper part exteriorly screw-threaded and inserted in said cylindrical part and formed with a central aperture cone-shaped

at its lower end and terminating in an angular top, and a retaining shell adapted to fit over the top of said stopper and fasten on the neck of the bottle, substantially as
5 set forth.

2. A bottle stopper comprising an outer part adapted to fit within the mouth of the bottle and formed with a supporting flange, an internal part mounted in said outer part
10 and formed with a central aperture cone-shaped at its lower end and angular in cross section at its outer end, a retaining shell adapted to fit over the top of said inner part and having depending arms carrying a band

on their lower ends and formed to fit over 15 the flange on the neck of said bottle, and means for locking the two ends of the band together under said flange, substantially as set forth.

In witness whereof, I have hereunto set 20 my hand and seal at Portsmouth, New Hampshire this twenty-sixth day of June, A. D. nineteen hundred and eleven.

WILLIAM J. KERSHAW. [L. s.]

Witnesses:

CHAUNCEY B. HOYT,
JOSEPH W. HODGDON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."