

A. F. PARKHURST.
Bottle-Stopper.

No. 219,302.

Patented Sept. 2, 1879.

Fig. 3

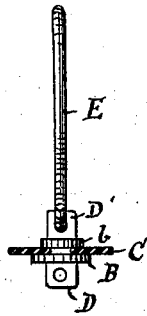


Fig. 1

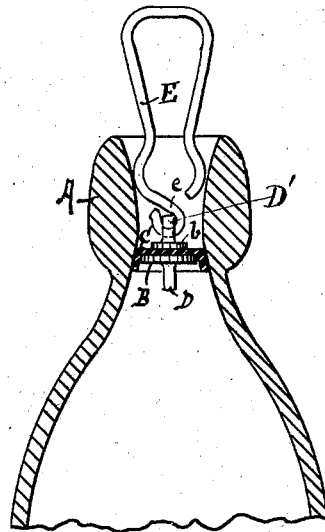


Fig. 4

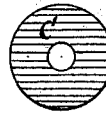
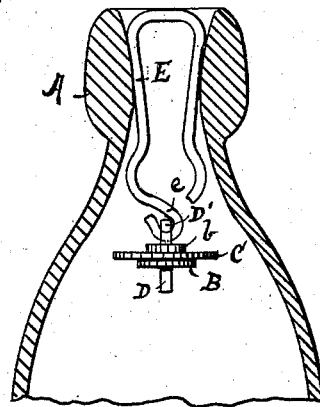


Fig. 2



WITNESSES:

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INVENTOR

Amos F. Parkhurst
by W. D. Bishop
his Attorney

UNITED STATES PATENT OFFICE.

AMOS F. PARKHURST, OF ALGONQUIN, ASSIGNOR OF ONE-HALF HIS RIGHT
TO AUGUST METTE, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN BOTTLE-STOPPERS.

Specification forming part of Letters Patent No. **219,302**, dated September 2, 1879; application filed
May 6, 1879.

To all whom it may concern:

Be it known that I, AMOS F. PARKHURST, of Algonquin, in McHenry county, and State of Illinois, have invented a new and useful Improvement in Bottle-Stoppers, of which the following is a specification.

The invention relates to bottle-stoppers where it is desired to preserve the stopper and keep it in place in the neck of the bottle for repeated use.

In the accompanying drawings, in which similar letters of reference indicate like parts, Figure 1 shows my bottle-stopper affixed in the bottle when filled. Fig. 2 shows the same in a position when the bottle is to be emptied. Fig. 3 shows another view of the bottle-stopper. Fig. 4 shows a plan of the rubber detached.

Letter A represents the bottle. E is a bent piece of wire, which forms a spring that keeps the stopper from falling in or out of the neck of the bottle, with a hook turned at the lower end. D' is an eye, through which the hook of the wire spring passes to connect said spring with the upper part of the bottle-stopper. b is the small upper metal washer. B is the large lower metal washer. C is the rubber washer, which fits in and is held in place between said metal washers, and when drawn into the neck of the bottle presses

down over the large lower washer and effectually closes up the neck of the bottle.

The hook at the lower end of the spring forms, with the eye D', a free joint.

The stopper, by means of this connecting-eye D' and hook e, will always draw straight into its proper place in the neck of the bottle for use, which it would not do if the spring E were attached solid to the washers of the stopper.

D is an eye through the lower part of the stopper, for use to insert a bent wire or other instrument for the purpose of removing broken or damaged stoppers from the bottle. The stopper must be reversed for removal, as the lower metal washer, when the rubber washer presses down over it, is too large to admit of the stopper passing out of the neck of the bottle. By means of this there will be a large saving in bottles and stoppers.

What I claim as my improvement, and for which I desire to obtain Letters Patent, is—

A bottle-stopper having eyes on the upper and lower sides, supported in and drawn to its place in the neck of the bottle by a spring-wire, substantially as described.

AMOS F. PARKHURST.

Witnesses:

WILLIAM C. HOYER,
W. G. PRESS.