

(No Model.)

W. F. WADE.
BOTTLE STOPPER.

No. 244,956.

Patented July 26, 1881.

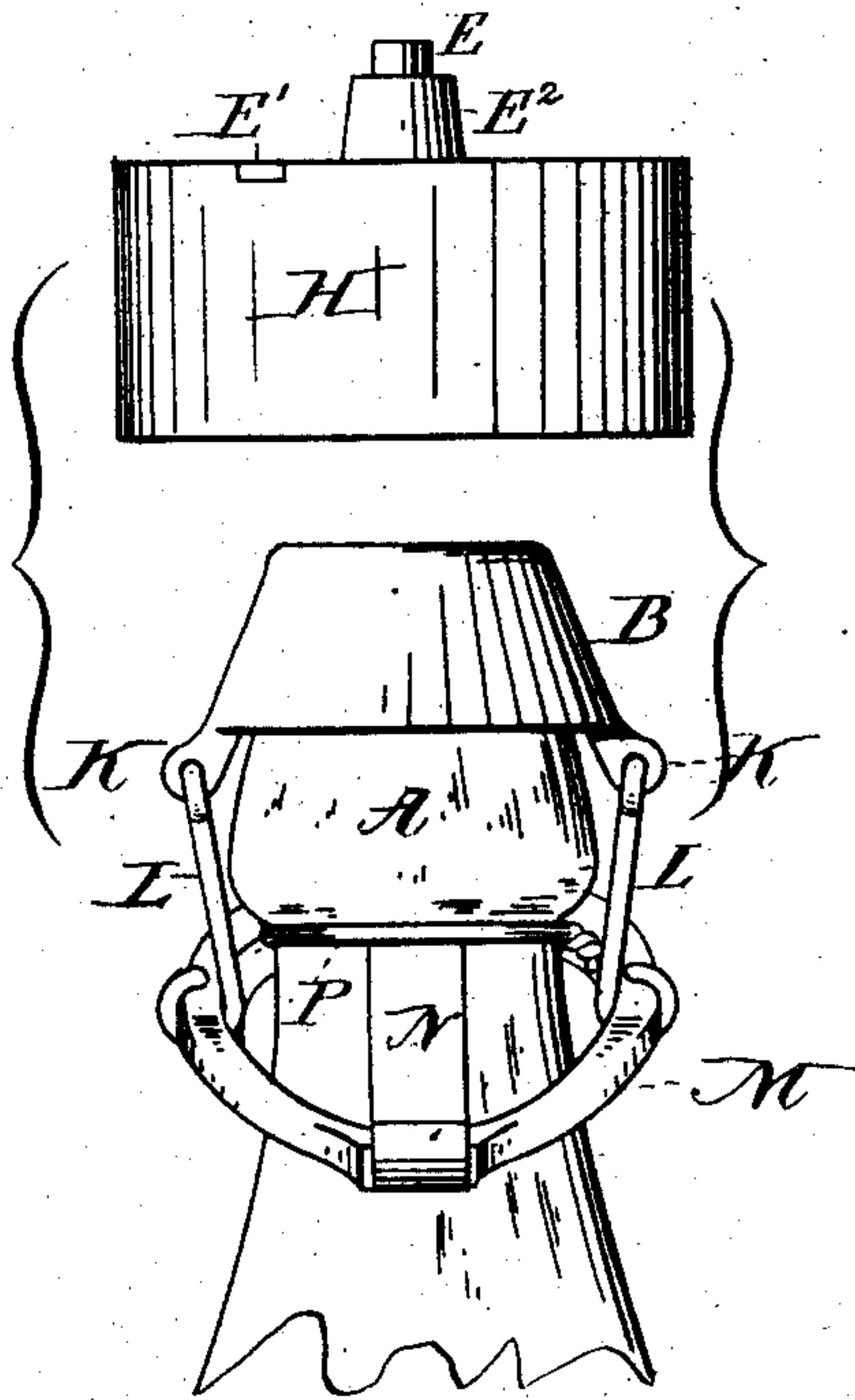


Fig. 1.

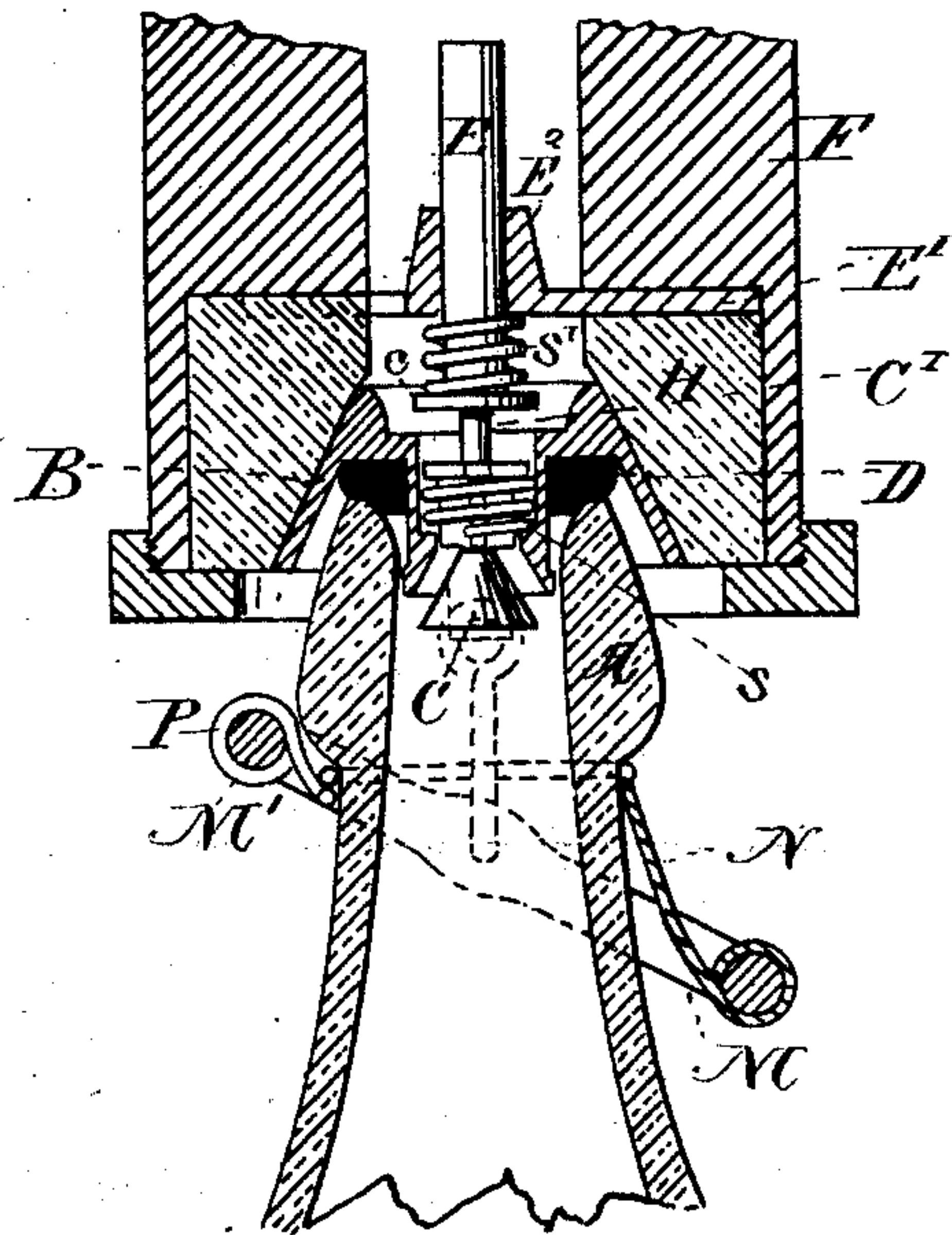


Fig. 2.

WITNESSES.

Frank M. Parker
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WALTER F. WADE, OF MEDFORD, ASSIGNOR OF TWO-FIFTHS TO GEORGE LORING AND GEORGE FULLINGTON LORING, OF BOSTON, MASS.

BOTTLE-STOPPER.

SPECIFICATION forming part of Letters Patent No. 244,956, dated July 26, 1881.

Application filed May 23, 1881. (No model.)

To all whom it may concern:

Be it known that I, WALTER F. WADE, of Medford, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Bottle-Stoppers, of which the following is a specification.

My invention relates to improvements in means for attaching a stopper to a bottle, the object being to so attach the stopper to the bottle that it may be readily swung off and leave the neck of the bottle entirely free; also, to make the stopper of such form that it will receive the outlet of the filling-machine and make with it a tight joint. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is an elevation, showing the upper part of the bottle and its stopper and device for fastening the same; it also shows the gasket of the bottling mechanism detached. Fig. 2 is a vertical section through the apparatus, showing the parts as they are when the filling is taking place.

In the drawings, A represents the upper part of the neck of a bottle. B forms the upper and outer part of the stopper, this part being coned, as shown, for the purpose of making a close water-tight joint with the gasket H of the bottling-machine. The stopper B is attached to the locking device M N by the links L L attached to lugs K formed on the opposite sides of the stopper B. The part M is substantially an oval ring made of any suitable metal. This oval ring M is held by a hinged joint at M', Fig. 2, said joint being formed by a wire, P,

bent as shown and wound around the neck of the bottle. (See Fig. 1.)

At the outer end of the oval ring I attach a spring latch or brace, N, this brace serving to hold the end of the oval ring M down when it is desirable to so hold it. This oval ring M, being slightly elastic, holds, when latched down, as shown, the links L, and through them the stopper B, firmly in place.

When it is desirable to remove the stopper the upper end of the latch N is thrown out from under the wire P and the ring M is swung upwardly. This action takes off the strain on the links L and allows the stopper B to be removed from the top A of the bottle.

The stopper B is provided with the usual soft packing D, and also has a self-closing valve, C, which is held up in place by the spring S.

I do not claim the gasket H, nor any of the parts belonging to the filling-machine, as those parts I propose to embody in another application.

I claim—

In a bottle-stopper-holding device, the combination of the stopper B, the ears K K, and the links L L, with the oval ring M, neck-wire P, and latch N, all operating together, substantially as described, and for the purpose set forth.

WALTER F. WADE.

Witnesses:

HELEN M. FEEGAN,
FRANK G. PARKER.