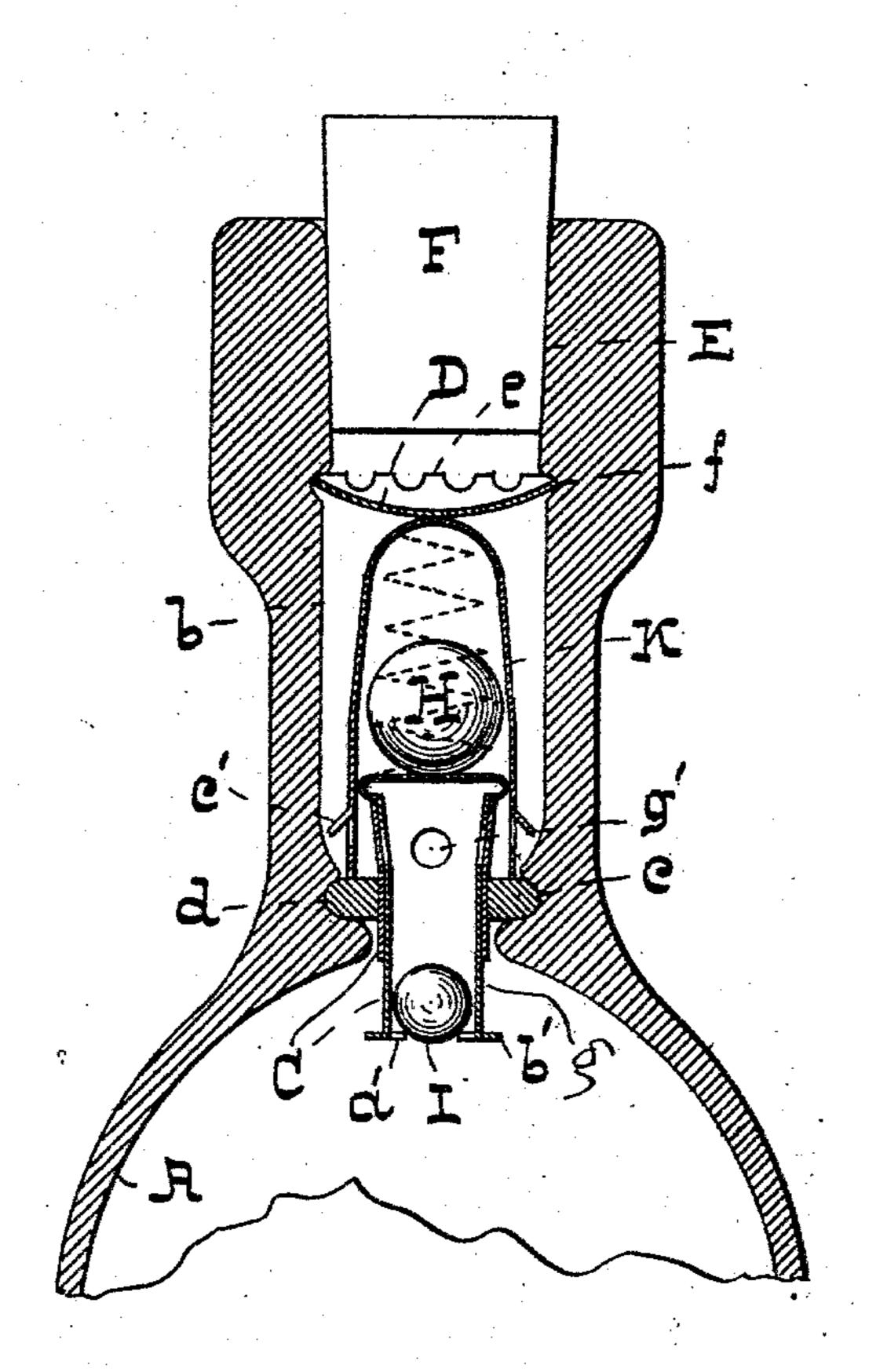
(No Model.)

J. W. FISCHER & E. MICHEAU.
ANTIREFILLING BOTTLE STOPPER.

No. 551,273.

Patented Dec. 10, 1895.



-WITNESSES-

Dan't Fisher Elmer V. Potter John M. Fischer,

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Glink, J. Mad, ad.

United States Patent Office.

JOHN W. FISCHER AND ELLIS MICHEAU, OF BALTIMORE, MARYLAND.

ANTIREFILLING-BOTTLE STOPPER.

SPECIFICATION forming part of Letters Patent No. 551,273, dated December 10, 1895.

Application filed March 6, 1895. Serial No. 540,730. (No model.)

To all whom it may concern:

Be it known that we, John W. Fischer and Ellis Micheau, of Baltimore, State of Maryland, have invented certain Improvements in Means for Preventing the Fraudulent Refilling of Bottles, of which the following is a specification.

The object of this invention, in common with others of its class, is to construct a bot10 tle in such manner that its contents may be easily poured out, but which cannot be refilled except under such circumstances as will practically destroy the bottle, as will hereinafter fully appear.

In the description of the said invention which follows, reference is made to the accompanying drawing, forming a part hereof, which is a vertical section of the upper part of a bottle constructed in accordance with the present invention.

Referring now to the drawing, A is the body of the bottle and B the neck.

C is a tube of metal or any other appropriate material, situated in the throat b of the bottle, having at its lower end an exterior compressible collar c, whereby the connection between the tube and bottle is made water-tight. The collar which is preferably of cork rests in an annular groove d near the

30 junction of the throat b and the body A.

E represents the mouth of the bottle and F
an ordinary cork stopper therein. The mouth
of the bottle below the cork stopper is provided with an annular groove f to secure in

The upper part of the tube C is tapered, and within the tube is a hollow valve G with holes g' in its wall, which allow of the discharge of liquid from the bottle when the valve is open.

The tube C and the valve G are covered by a tapered thimble K having guarded holes c', held down by the disk D, the periphery of which has upturned projections e which rest within the annular groove f. A ball H rests on the valve G, and another ball I is retained within the valve by the inturned projections a' and assists in keeping the valve G seated. The upward motion of the valve G is limited by the outward projections b'. By having the 50 thimble K tapered as shown, the ball H will roll down and seat the valve when the bottle is in a horizontal position, and thereby prevent the refilling of the bottle when the same is so placed.

In place of the ball H a spring shown in dotted lines may be employed.

We claim as our invention— In combination with a bottle having in its throat two annular grooves, combined with 60 an annular compressible collar which rests in the lower groove, an open tube held within the bottle by means of the compressible collar, a valve in the tube which consists of a tube having a closed upper end and a ported 65 wall, a ported thimble which rests on the compressible collar and covers the valve and tube, a disk with peripheral upturned projections which rest in the upper annular groove, which disk serves to hold the thimble in position, 70 means to hold the valve to its seat, and a ball which serves to open the valve when the bottle is inverted, substantially as and for the purpose specified.

JOHN W. FISCHER. ELLIS MICHEAU.

Witnesses:
WM. T. HOWARD,
DANL. FISHER.