

(No Model.)

I. NEEF.
BOTTLE STOPPER.

No. 277,847.

Patented May 15, 1883.

Fig. 1.

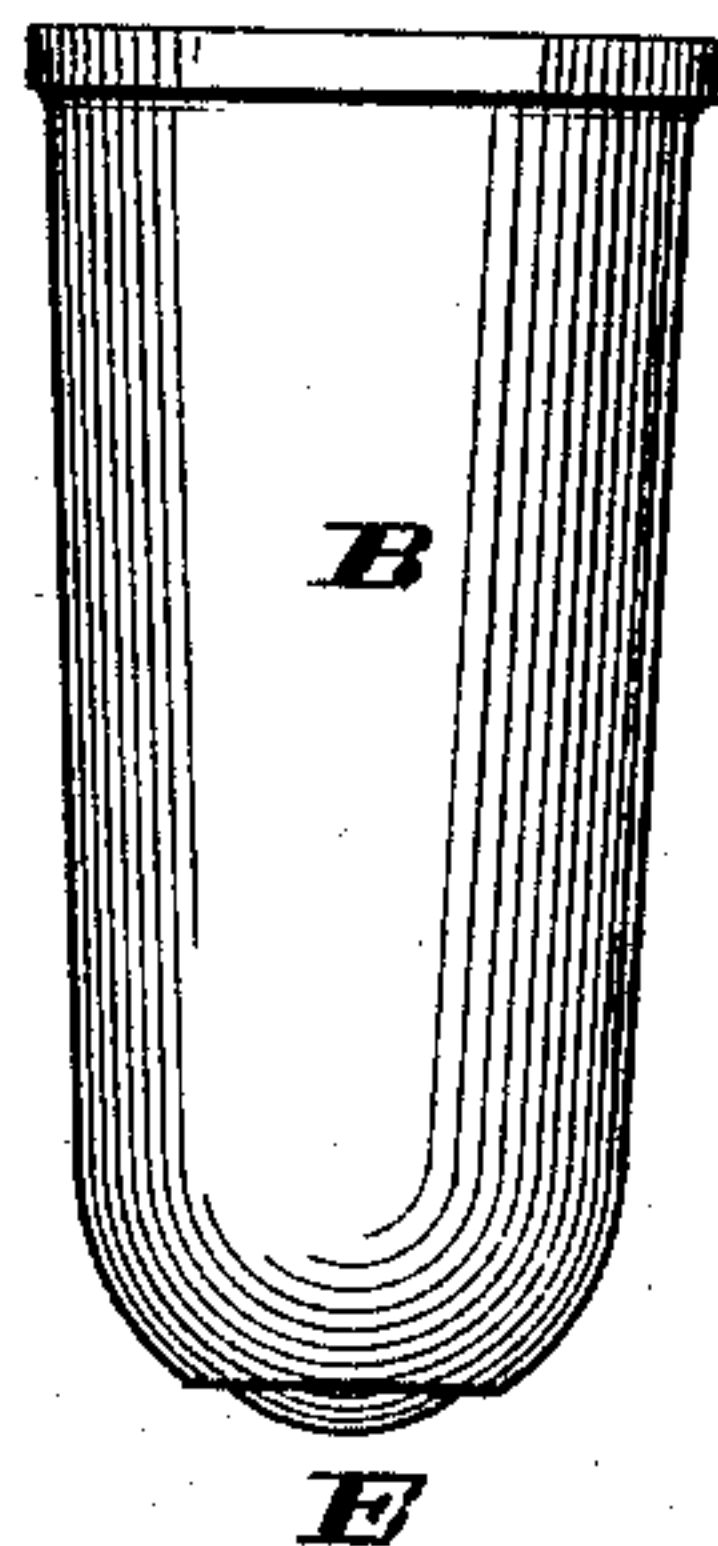
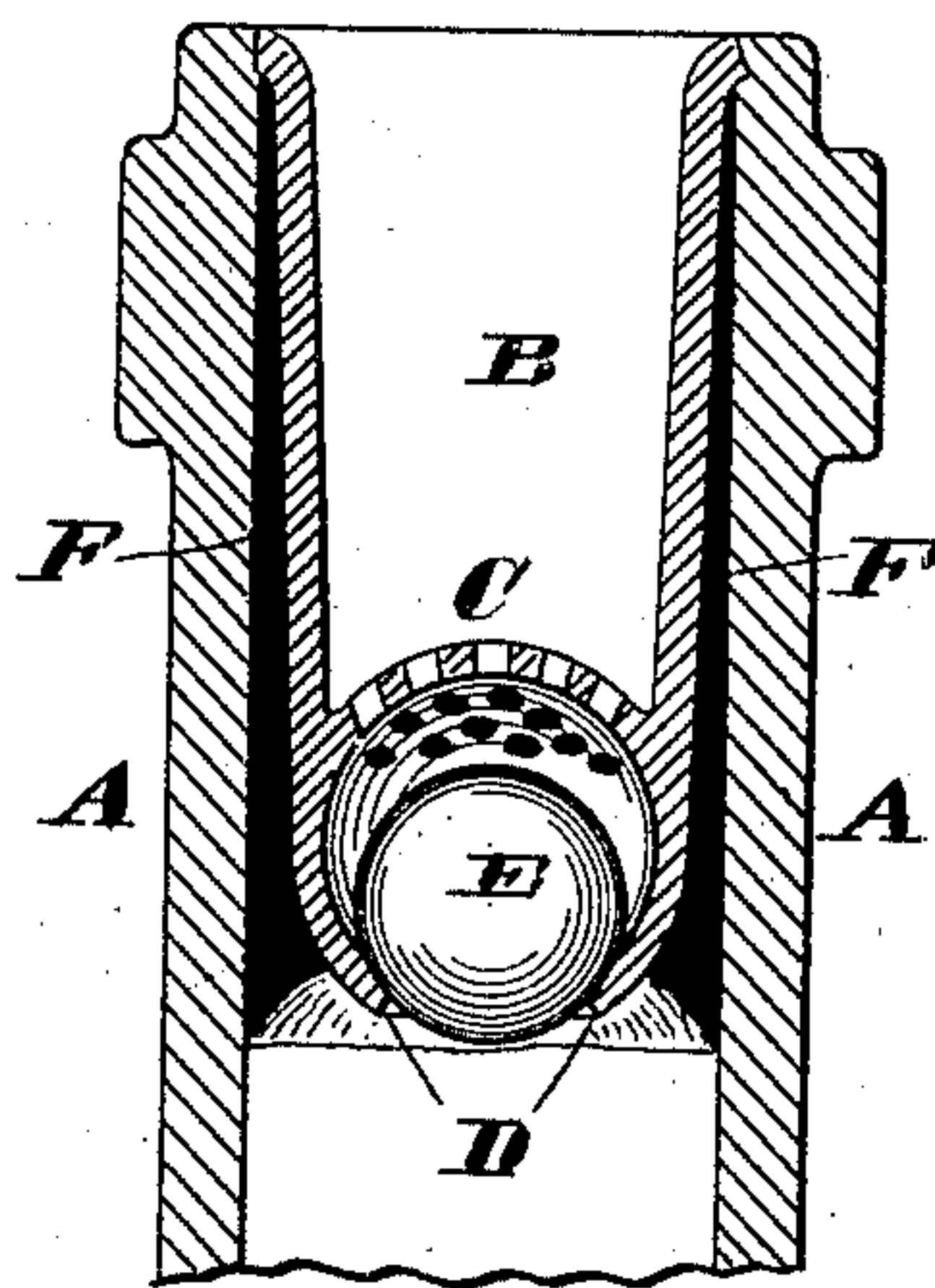


Fig. 2.



Attest:
Herbert Knight
Charles C. Buckley

Inventor:
Isidor Neef
By Knight Bros
attys.

UNITED STATES PATENT OFFICE.

ISIDOR NEEF, OF GROFISH BADEN, GERMANY.

BOTTLE-STOPPER.

SPECIFICATION forming part of Letters Patent No. 277,847, dated May 15, 1883.

Application filed February 13, 1883. (No model.)

To all whom it may concern:

Be it known that I, ISIDOR NEEF, of Grofsh Baden, Germany, have invented a certain new and useful Improvement in Bottle-Stoppers, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, and in which—

Figure 1 is a side elevation of the stopper removed from the bottle; and Fig. 2 is a vertical section, showing the stopper secured in the mouth of a bottle.

My invention relates to a stopper to prevent bottles being filled when once emptied or partly emptied, so that a non-genuine article—such as bitters, wines, &c.—cannot be put into a bottle and sold for genuine.

My invention consists in an improved construction, hereinafter described, and pointed out in the claims.

Referring to the drawings, A represents the neck of a bottle. B represents the body of the stopper, having a perforated shell, C, at its lower end, which incloses a ball-valve, E. The bottom of the shell is open, as shown, forming a seat, D, for the valve E. Now, it will be seen that when the bottle is turned wrong end up the liquid will flow out freely through the opening in the bottom of the shell, from which the ball will gravitate, and through the perforated top, and then when the bottle is turned back the ball will fall to its seat and close the opening in the bottom of the shell, thus preventing any liquid from entering. The bottle is originally filled before inserting the stopper, and then the interior of the neck of the bottle

coated with a suitable cement or plaster-of-paris, F, (or the cement may be placed upon the stopper before inserting it,) and then the stopper inserted, as shown.

The stopper may be made of any suitable material; but I prefer to make it of glass.

A common cork may be inserted into the stopper B, if desired, when the bottle is being shipped or not used.

I claim as my invention—

1. The combination, with a bottle, of a stopper permanently secured by cement wholly within the mouth of the bottle, said stopper having a valve located on the outside of the inner opening to prevent the pouring in of liquid into the bottle through the stopper after the stopper is inserted, and a perforated shell or cover over said valve to retain the valve within its chamber, while permitting the contents to flow out when desired, as set forth.

2. In combination with a bottle, a stopper secured in the mouth of the bottle, and having a shell on its lower end having a perforated top and an open bottom, and inclosing a ball-valve, substantially as shown and described, for the purpose set forth.

3. The combination of bottle A, stopper B, held in the bottle by cement F, perforated shell C, with valve-seat D, and ball-valve E, inclosed in the shell C, all substantially as shown and described, for the purpose set forth.

ISIDOR NEEF.

In presence of—

SAML. KNIGHT,
GEO. H. KNIGHT.