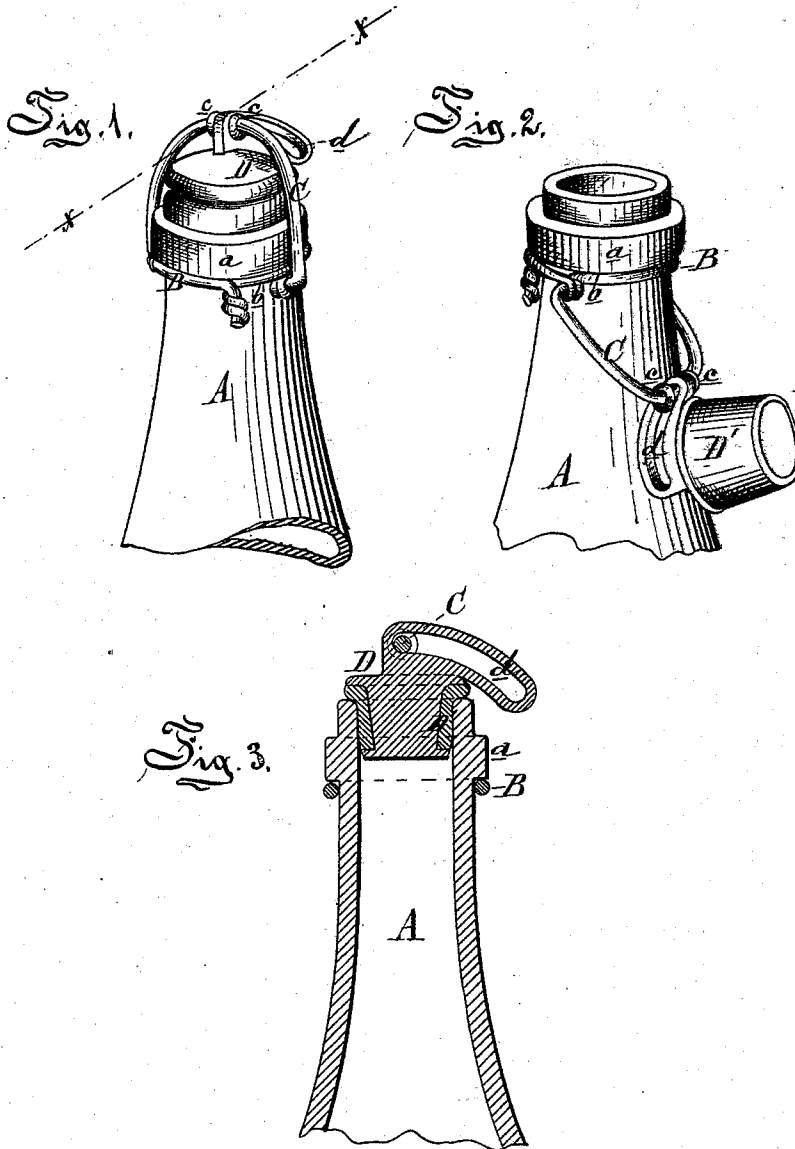


M. J. HINDEN.
BOTTLE-STOPPER.

No. 178,006.

Patented May 30, 1876



Attest:
Edward Barthel
Chas J. Hunt

Inventor:
M. J. Hinden
By Atty
Thos. S. Sprague

UNITED STATES PATENT OFFICE.

MATHIAS J. HINDEN, OF DETROIT, MICHIGAN, ASSIGNOR TO HIMSELF AND
MATTHIAS KERSHT, OF SAME PLACE.

IMPROVEMENT IN BOTTLE-STOPPERS.

Specification forming part of Letters Patent No. 178,006, dated May 30, 1876; application filed
January 7, 1876.

To all whom it may concern:

Be it known that I, MATHIAS JOSEPH HINDEN, of Detroit, in the county of Wayne, and State of Michigan, have invented an Improvement in Bottle-Stoppers, of which the following is a specification:

The nature of my invention relates to an improvement in bottle-stoppers of that class wherein an elastic stopper is hung by a bail to the wire band around the neck of the bottle, and is compressed upon the mouth of the bottle by swinging up the bail; and it consists in the peculiar construction and combination of the metallic stopper-cap and an eccentrically-slotted segment with the swinging bail, as more fully hereinafter set forth.

Figure 1 is a perspective view of the mouth of a bottle closed by my stopper. Fig. 2 is a perspective view of the same opened. Fig. 3 is a vertical section at *x x*.

In the drawing, A represents the neck of a bottle, molded with the usual ball *a* below the mouth. B is a wire collar below the bail, with an eye, *b*, turned in it at each side, in which is inserted a hook at each end of a bail, C,

which passes through an eccentric or curved slot, *d*, in a vertical rib molded on top of a metal cap or plug, D, on whose shank is fitted the conical rubber stopper D', adapted to enter the mouth of the bottle when the bail is at the lower and outer end of the slot. The stopper is forced into the bottle by moving the bail up the said slot, and is released by a reverse movement.

To keep the stopper in its proper position to enter the bottle, a collar, *c*, is soldered or otherwise formed on the bail at each side of the rib.

What I claim as my invention is—

The bottle-stopper described, and, in combination, the stopper D D', the eccentric slot *d* projecting beyond the sides of the said stopper, the bail C provided with the collar *c*, and the wire collar B, having an eye, *b*, turned in each side, all constructed and arranged substantially as described and shown.

MATHIAS JOSEPH HINDEN.

Witnesses:

H. F. EBERTS,
H. S. SPRAGUE.