

(No Model.)

J. M. LEWIN.
BOTTLE STOPPER.

No. 267,650.

Patented Nov. 14, 1882.

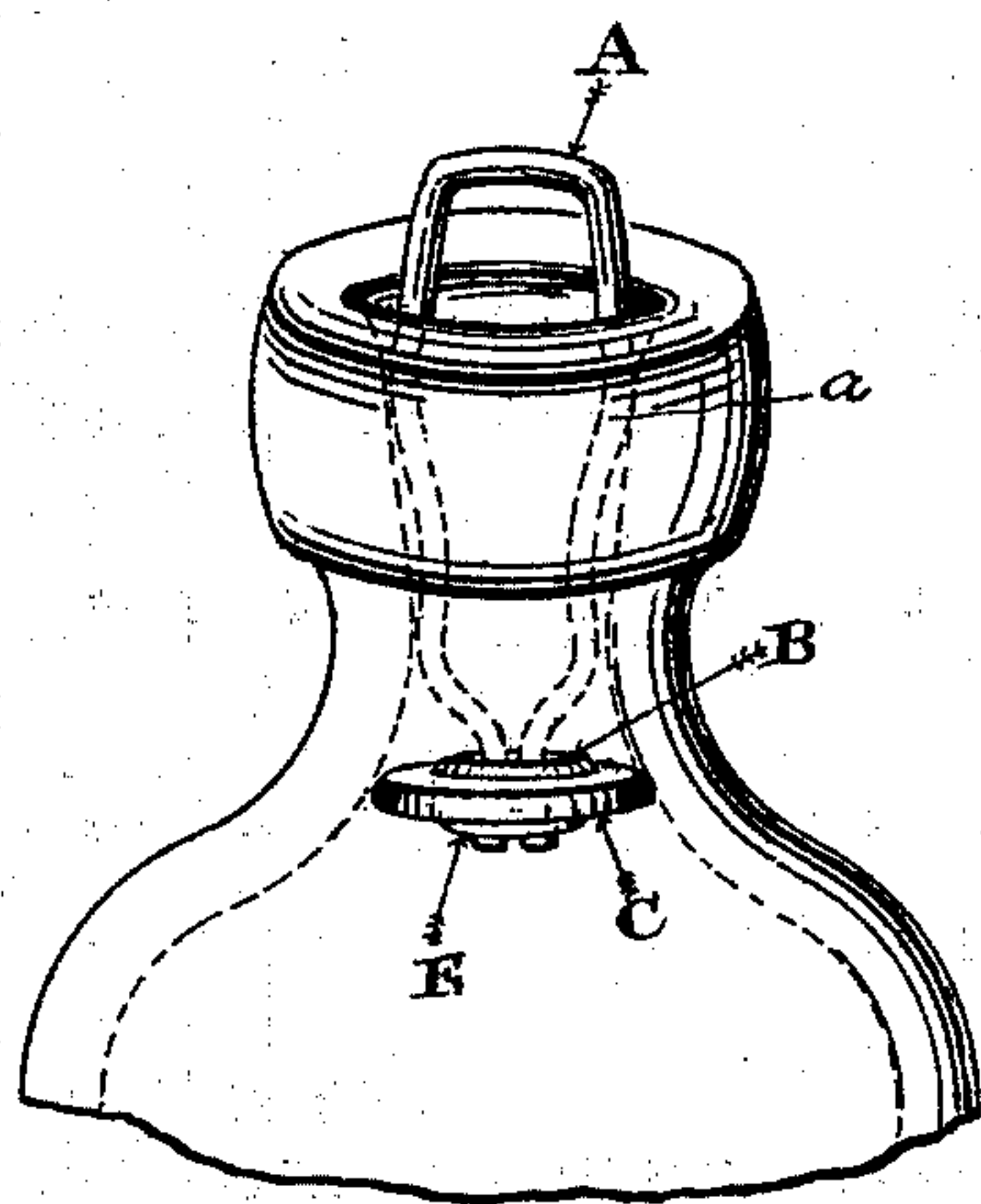


Fig. 1.

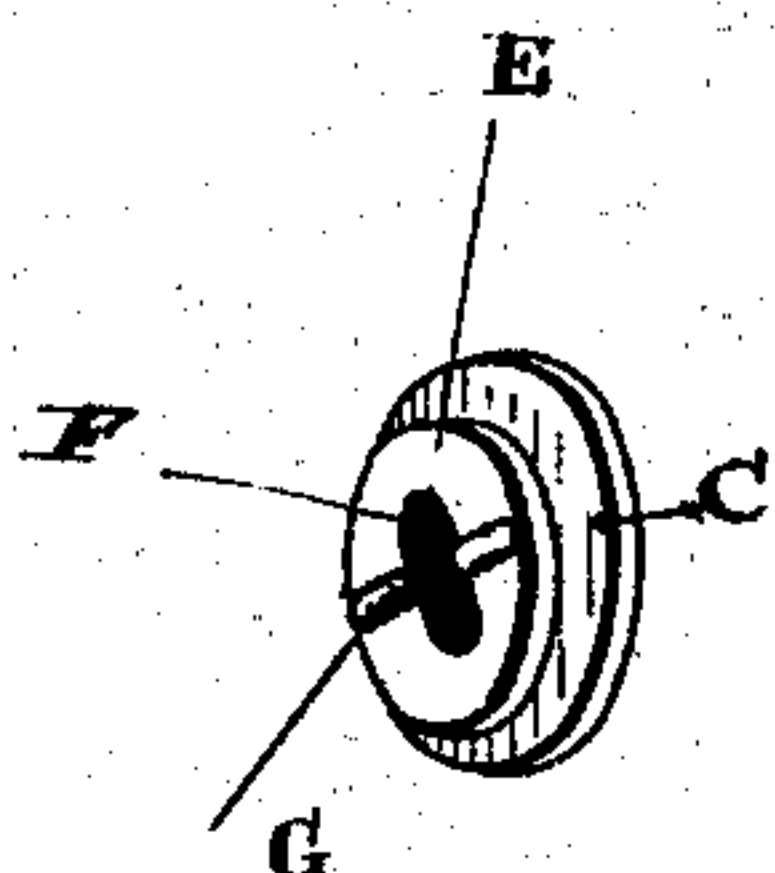


Fig. 3.

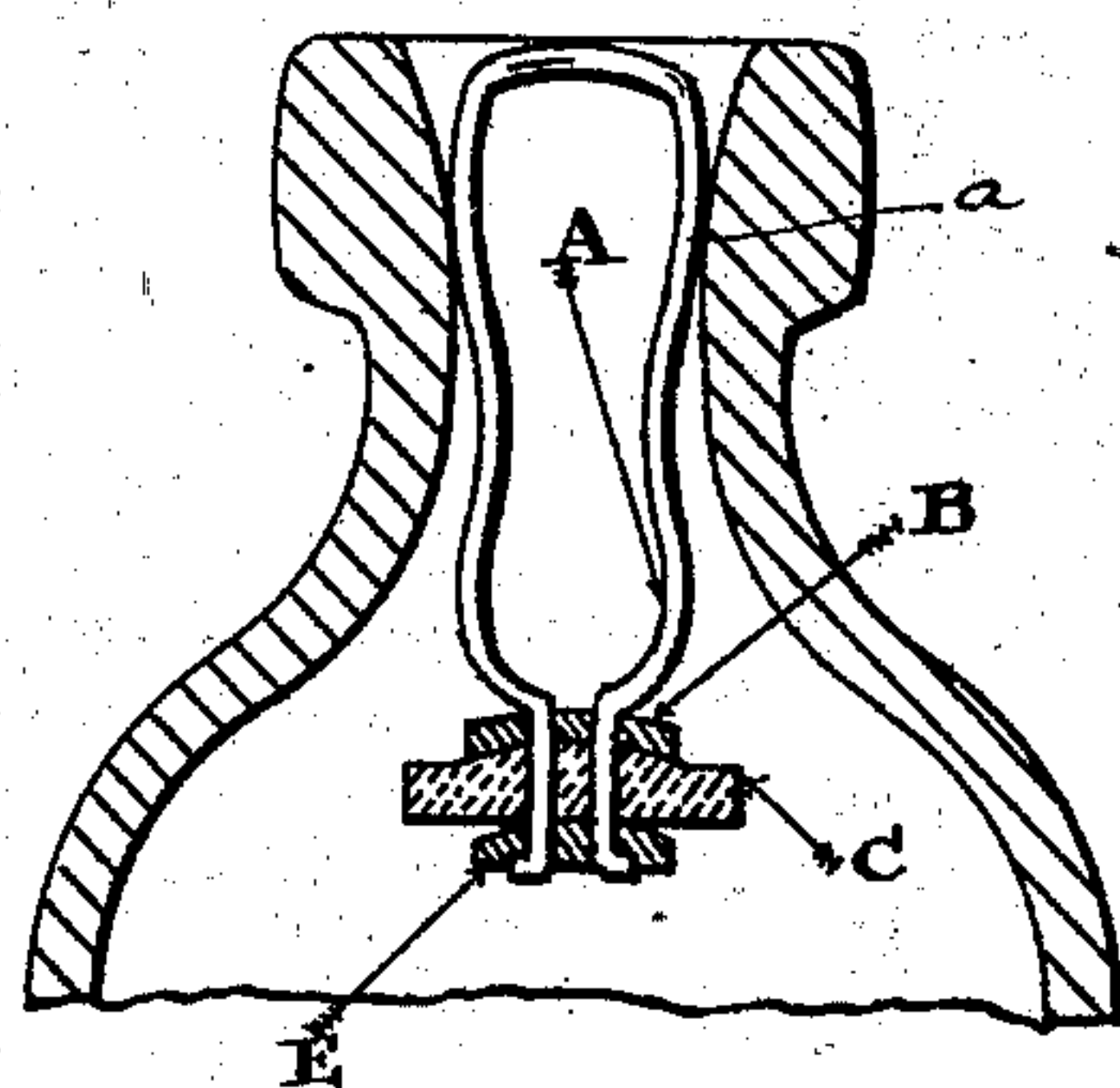


Fig. 2.

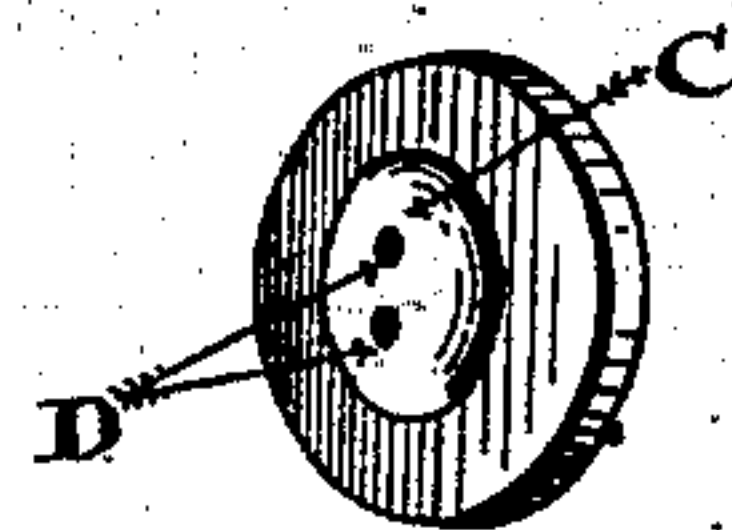


Fig. 4.

Witnesses.

Lewis Toulmin

J. B. Barnard & Kestonhaugh

Inventor.

J. M. Lewin

by Donald C. Kidout of

Att'y

UNITED STATES PATENT OFFICE.

JOHN M. LEWIN, OF LOCKPORT, NEW YORK, ASSIGNOR OF ONE-HALF TO
SAMUEL SIBLEY MUTTON, OF TORONTO, CANADA.

BOTTLE-STOPPER.

SPECIFICATION forming part of Letters Patent No. 267,650, dated November 14, 1882.

Application filed July 15, 1882. (No model.)

To all whom it may concern:

Be it known that I, JOHN MATTHEW LEWIN, a citizen of the United States, residing at Lockport, in the county of Niagara, in the State of New York, one of the United States of America, have invented certain new and useful Improvements in Bottle-Stoppers, of which the following is a specification.

The invention relates to bottle-stoppers; and the novelty consists in the construction, adaptation, and arrangement of parts, as will be more fully hereinafter set forth, and specifically pointed out in the claims.

In the drawings, Figure 1 is a perspective view of the neck of a bottle provided with my improved internal bottle-stopper. Fig. 2 is a sectional view of the same. Fig. 3 is a view of the stopper and bottom washer with the slot and indentation. Fig. 4 is a view of the stopper with holes instead of slot and indentation.

A is the loop-wire, bent substantially in the form shown.

B is a metal washer, cast or otherwise rigidly secured in the position shown at the point where the ends of the loop-wire A approach each other.

C is a stopper, made of rubber or other suitable pliable material. Holes D are made in the stopper C to permit it to be slipped onto the ends of the wire A projecting below the washer B.

E represents the lower removable washer, having a slot, F, sufficiently large to permit the passage of the ends of the loop A' when bent outward, as shown in Figs. 1 and 2. By turning the washer E one-quarter of a circle the bent ends of the wire A are received into recesses G, formed in the washer at right angles to the plane of the slot, the spring of the rubber

washer C serving to hold the said ends in the recesses G, unless disengaged by force, while that portion of the rubber washer between the wires serves to hold the wires apart and in locking connection with the lower washer, E. By carrying the wire through separate holes in the rubber stopper C, each hole being made a snug fit round the wire, a liquid-tight joint is insured. The wire A is bulged at its sides, as shown at *a*, to form a spring, which, when the wire is forced down into the bottle to displace the stopper C and allow the contents to escape, serves to hold the stopper in that position by its friction against the neck of the bottle, and the same spring feature serves to hold the stopper in position when closed by its bearing upon the bottle-mouth.

What I claim as my invention is—

1. In an internal bottle-stopper in which the ends of the bail pass through the rubber disk, the washer E, having slot F, and recesses G, combined with said bail and disk, with means, substantially as described, for locking the washer in position or removing it at will, as set forth.

2. In an internal bottle-stopper in which the loop-wire is joined together by a metal washer permanently fixed to it and the ends of the wire are bent at right angles, the combination of a removable washer, E, having a slot, F, cut through it, and indentations made in its surface for the purpose of holding the stopper C in position, substantially as and for the purpose specified.

J. M. LEWIN.

Witnesses:

CHAS. C. BALDWIN,
LEWIS TOMLINSON.