

(No Model.)

T. J. CAIN.
BOTTLE STOPPER.

No. 411,277.

Patented Sept. 17, 1889.

Fig. 1.

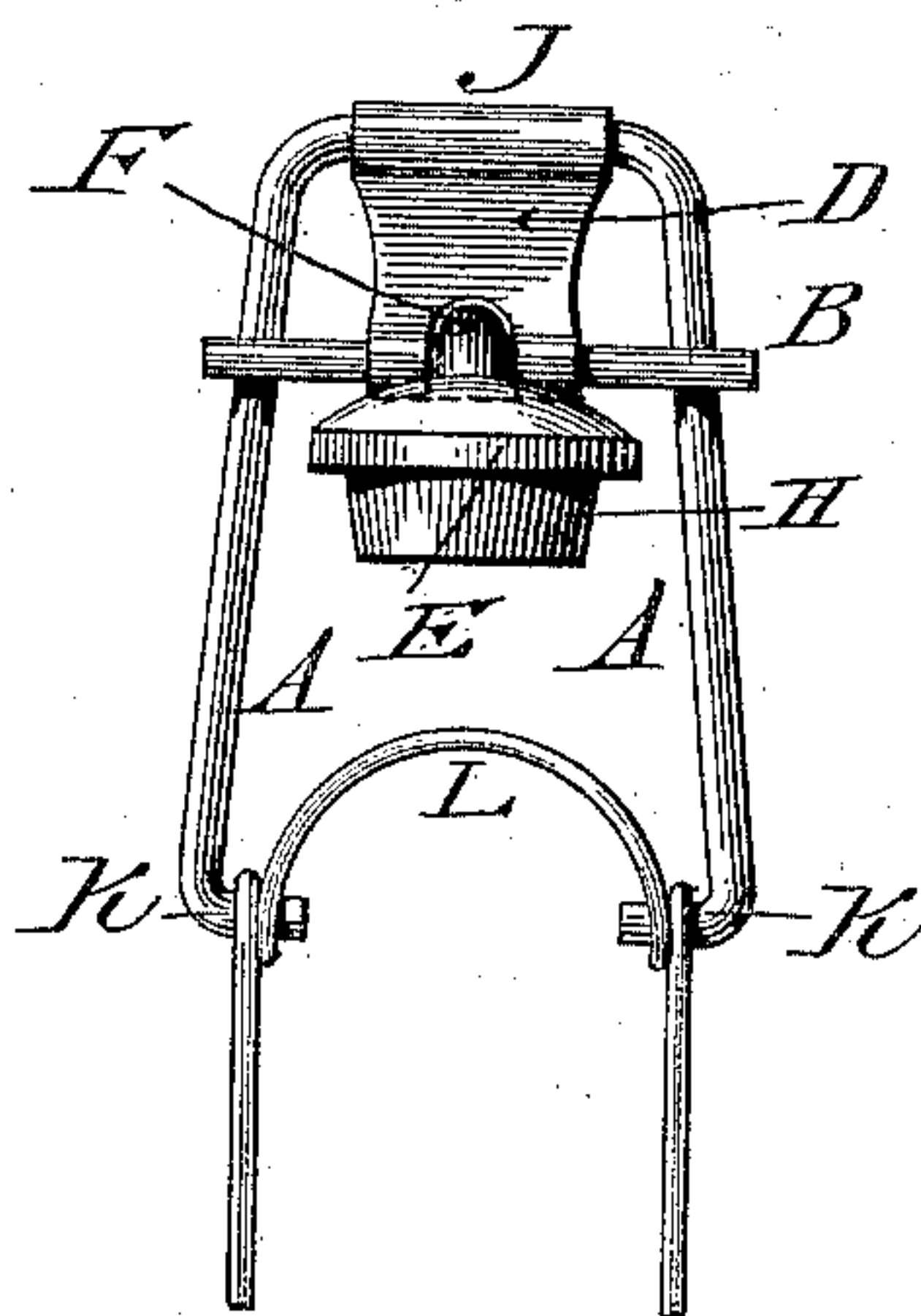


Fig. 3.



Fig. 2.

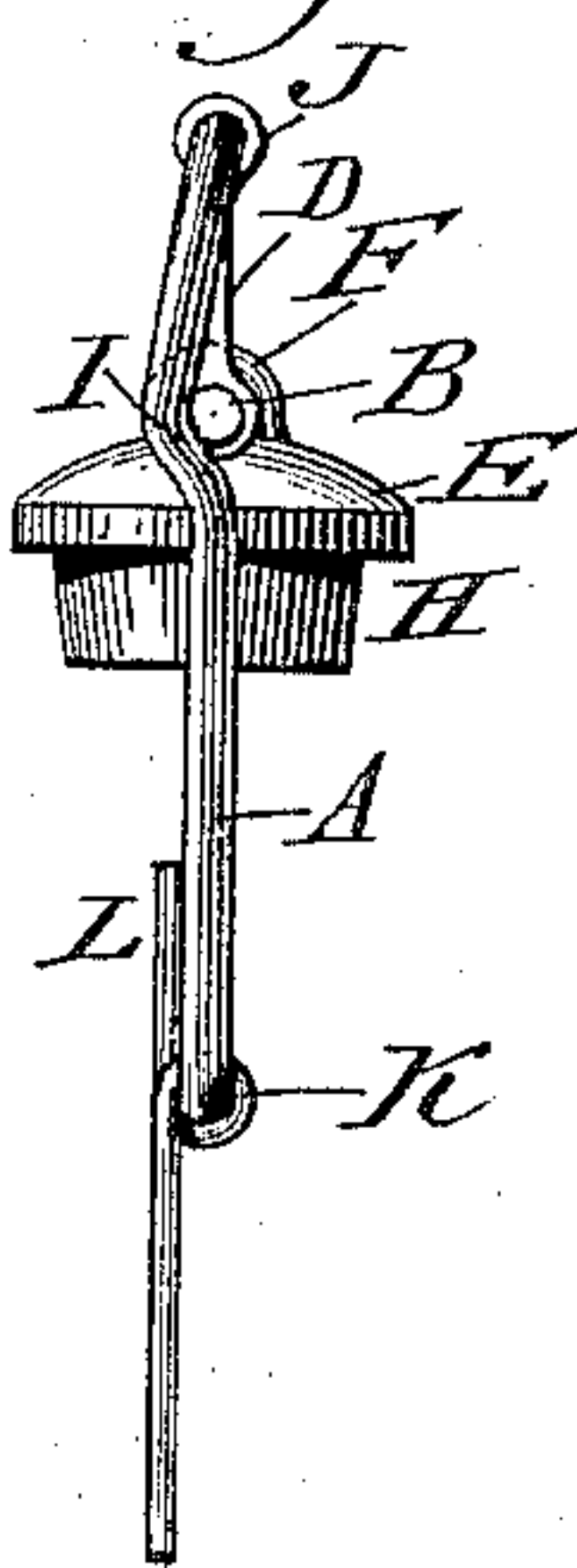


Fig. 4.



Witnesses.

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UNITED STATES PATENT OFFICE.

THOMAS J. CAIN, OF CLEVELAND, OHIO.

BOTTLE-STOPPER.

SPECIFICATION forming part of Letters Patent No. 411,277, dated September 17, 1889.

Application filed June 30, 1889. Serial No. 314,176. (No model.)

To all whom it may concern:

Be it known that I, THOMAS J. CAIN, a citizen of the United States, residing at Cleveland, Cuyahoga county, and State of Ohio, have invented a new and useful Improvement in Bottle-Stoppers, of which the following is a specification.

My invention relates to improvements in means of corking and fastening corks or stoppers in bottles, whereby bottles may be quickly opened and closed and the corks or stoppers retained, and pressure necessary to retain cork in bottle had. I attain this object by the mechanism illustrated in the accompanying drawings.

Figure 1 is a front view of the device; Fig. 2, a side view; Fig. 3, a view of the stopper-cap; Fig. 4, a view of the stopper.

Similar letters refer to similar parts throughout the several views.

Letter A represents the bail-wire; B, the stop-rod; D, the pressure-link; E, the stopper-cap; F, the lug on stopper-cap; G, the screw on stopper-cap; H, the stopper; I, the recesses in bail-wire; J, the horizontal top on the bail-wire; K, the fasteners to neck-wire; L, the neck-wire, neck-wire L being a wire around the neck of the bottle with a loop on each side of bottle and directly opposite each other.

Bail-wire A is a wire bent in the shape of a bail with a horizontal top J on the center or upper part, with recesses I sufficient in depth to admit stop-rod B, and with fasteners K on each end, with which it is fastened to the neck-wire L.

The stop-rod B is a rod extending from one side of the bail-wire to the other, passing through the lug F loosely, and attached to the lower part of the pressure-link.

The pressure-link D is hinged or fastened

loosely around the horizontal top of the bail-wire J, extending down with a slot in the center sufficient to allow the lug F to play freely, and with the forks on each side of the lug F made fast to the stop-rod B, which holds the stop-rod B in place, thereby giving a direct bearing on the stopper-cap equally.

The stopper-cap E is a piece of metal with a flat surface on the under side, with a screw G extending downward for the purpose of attaching the stopper, and with lug F in the center or upper part, by which it is hung loosely on stop-rod B.

The stopper H may be made out of any material suitable, with a screw in center to fit the screw on the stopper-cap.

In closing the bottle, by throwing the bail-wire in an upright position the pressure-link is pressed down on the stopper-cap, the bail-wire coming in contact with the stop-rod in a position so that it has a direct pressure in line with the center of the bottle and holding the bail-wire in place until thrown back to open the bottle.

What I claim, and desire to secure by Letters Patent, is—

The combination of the bail-wire A, pivotally secured to the neck of the bottle, the pressure-link D, pivotally secured to the bail-wire, the stop-rod B, secured to the pressure-link and extended to engage the arms of the bail-wire, the latter being offset with respect to the stop-rod, and the stopper for closing the mouth of the bottle, secured to the pressure-link, substantially as and for the purpose set forth.

THOMAS J. CAIN.

Witnesses:

W. E. MORROW,
R. T. MORROW.