

(No Model.)

J. B. MILLER, Dec'd.

T. MILLER, Administratrix.

BOTTLE STOPPER.

No. 245,199.

Patented Aug. 2, 1881.

Fig: 1

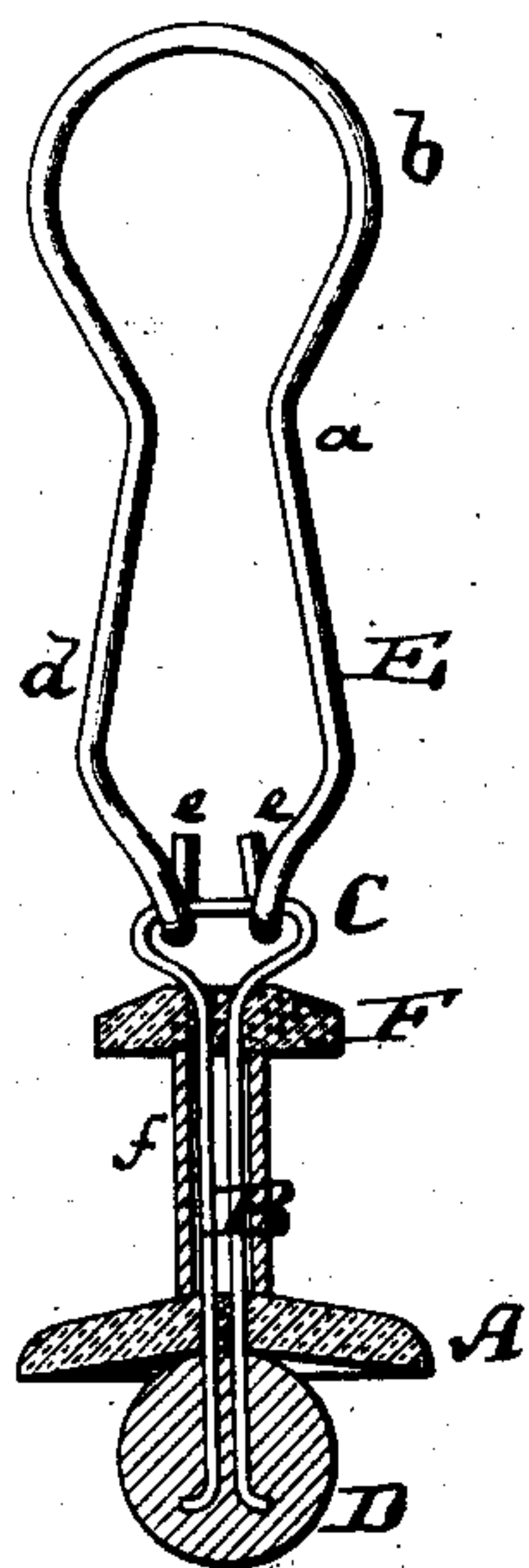
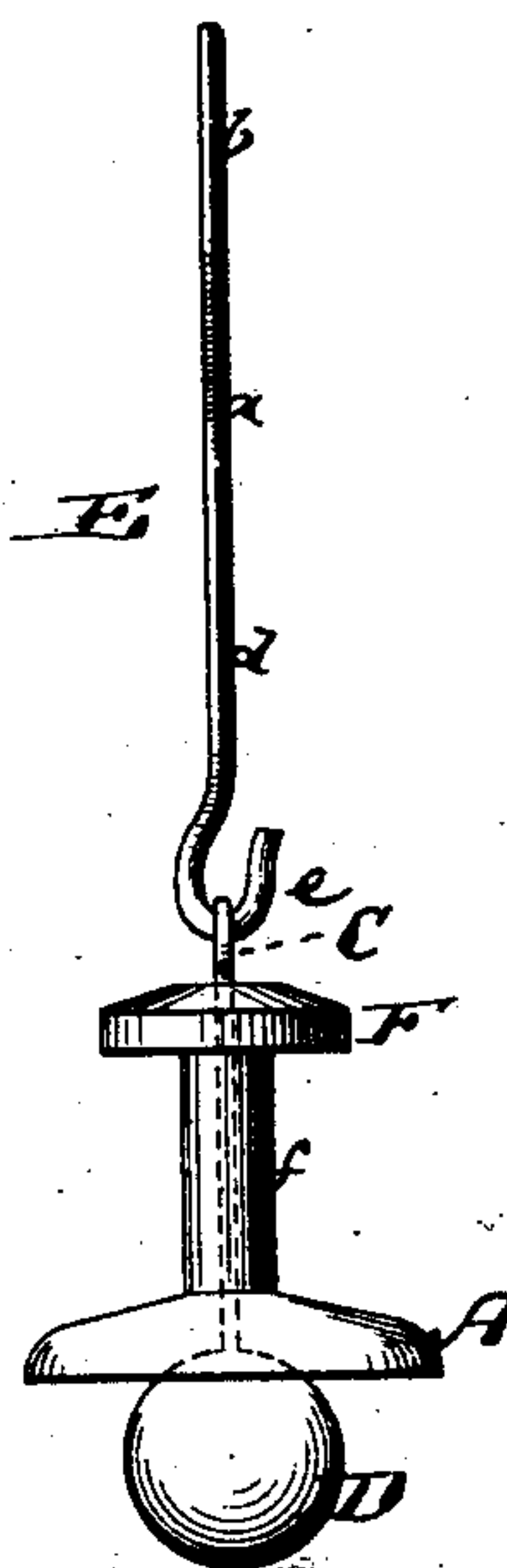


Fig: 2



Witnesses.

Henry F. Parker

Wm. C. Timbridge

Inventor.

Theresa Miller

administratrix of the estate of
Joel B. Miller deceased
by her attorney
A. B. Briesau

UNITED STATES PATENT OFFICE.

THRESSA MILLER, OF KINGSTON, NEW YORK, ADMINISTRATRIX OF JOEL B. MILLER, DECEASED, ASSIGNOR TO HENRY W. PUTNAM, OF BENNINGTON, VERMONT.

BOTTLE-STOPPER.

SPECIFICATION forming part of Letters Patent No. 245,199, dated August 2, 1881.

Application filed May 20, 1880. (No model.)

To all whom it may concern:

Be it known that JOEL B. MILLER, deceased, late of Kingston, in the county of Ulster and State of New York, did invent a new and useful Improvement in Bottle-Stoppers, of which the following is a specification.

Figure 1 is a sectional face view of the improved bottle-stopper. Fig. 2 is a side view thereof.

This invention relates to a new suspended internal bottle-stopper; and it consists, first, in combining the disk-shaped inner stopper with a spring bail or handle that is capable of holding the stopper properly in position and prevents it slipping into the hold of the bottle.

The invention also consists in supplying said bottle-stopper with an additional upper disk for interposing a shield between the mouth of the bottle and the stopper, to prevent impurities from reaching the stopper itself; also, in hinging the spring-bail to the flat or disk-shaped stopper.

The stopper is intended to operate like that described in Letters Patent No. 156,302, dated October 27, 1874.

In the accompanying drawings, the letter A represents the flat or disk-shaped valve or stopper, which is made of India-rubber or equivalent material and held on a stem, B, that is preferably made of wire, and that forms an elongated eye, C, at its upper part. The lower end or ends of the stem B are secured in a metal ball or plate, D, that is in contact with the lower surface of the disk-shaped valve A. This ball or plate D is of such size as to prevent the withdrawal of the stopper or disk-shaped valve from the bottle after the same has been inserted, but it will not interfere with its ready introduction into the bottle.

Into the eye C are hooked the ends of a centrally-contracted spring-loop, E, which has above the contraction *a* an upper enlargement, *b*, and below said contraction *a* a lower enlargement, *d*. The lower enlargement bears against the inner walls of the bottle and acts as a spring to keep the stopper in place. The upper enlargement, *d*, prevents the stopper falling into the hold of the bottle. The hooks or eyes *e e*, at the open lower end of the spring-loop E, are arranged to freely receive the upper cross-bar of the elongated eye C.

Above the stopper or disk-shaped valve A, and below the elongated eye C, is attached to the stem B a smaller disk, F, preferably of rubber or other elastic material, capable of entering the mouth of the bottle and of shielding the stopper or disk-shaped valve, so that impurities cannot reach it. A collar, *f*, supports the disk F on the disk A.

I claim—

1. The flat or disk-shaped valve A, combined with the centrally-contracted spring-loop E, substantially as specified.

2. The combination of the flat or disk-shaped stopper-valve A with the elongated eye C, and with the centrally-contracted spring-loop E, hinged to said eye, substantially as specified.

3. The combination of the internal bottle-stopper or valve A and its stem B with the disk F, and with the spring-loop E, substantially as specified.

MRS. THRESSA MILLER,
Administratrix of Joel B. Miller, deceased.

Witnesses:

PATRICK H. MCGIVNEY,
JOHN W. WEBER.