

H. O. Lothrop, Pipe Expander.

N^o 57,524.

Patented Aug. 28, 1866.

Fig. 3

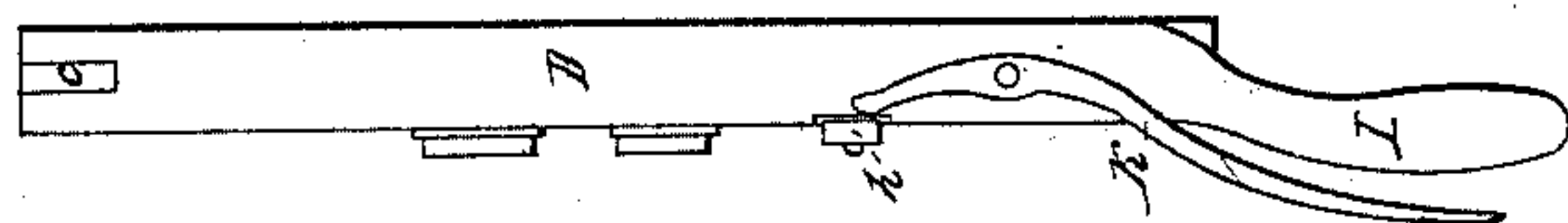


Fig. 8

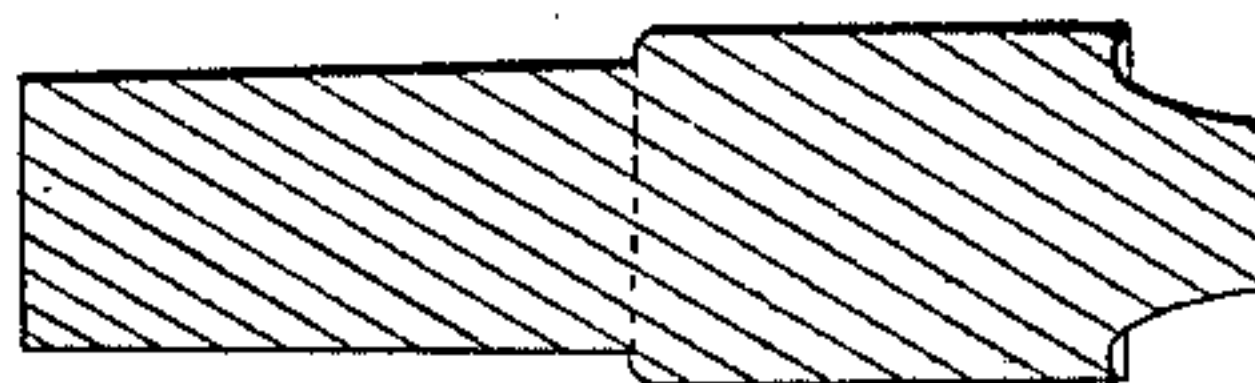


Fig. 7

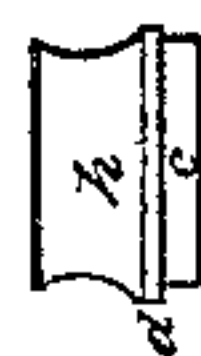


Fig. 5

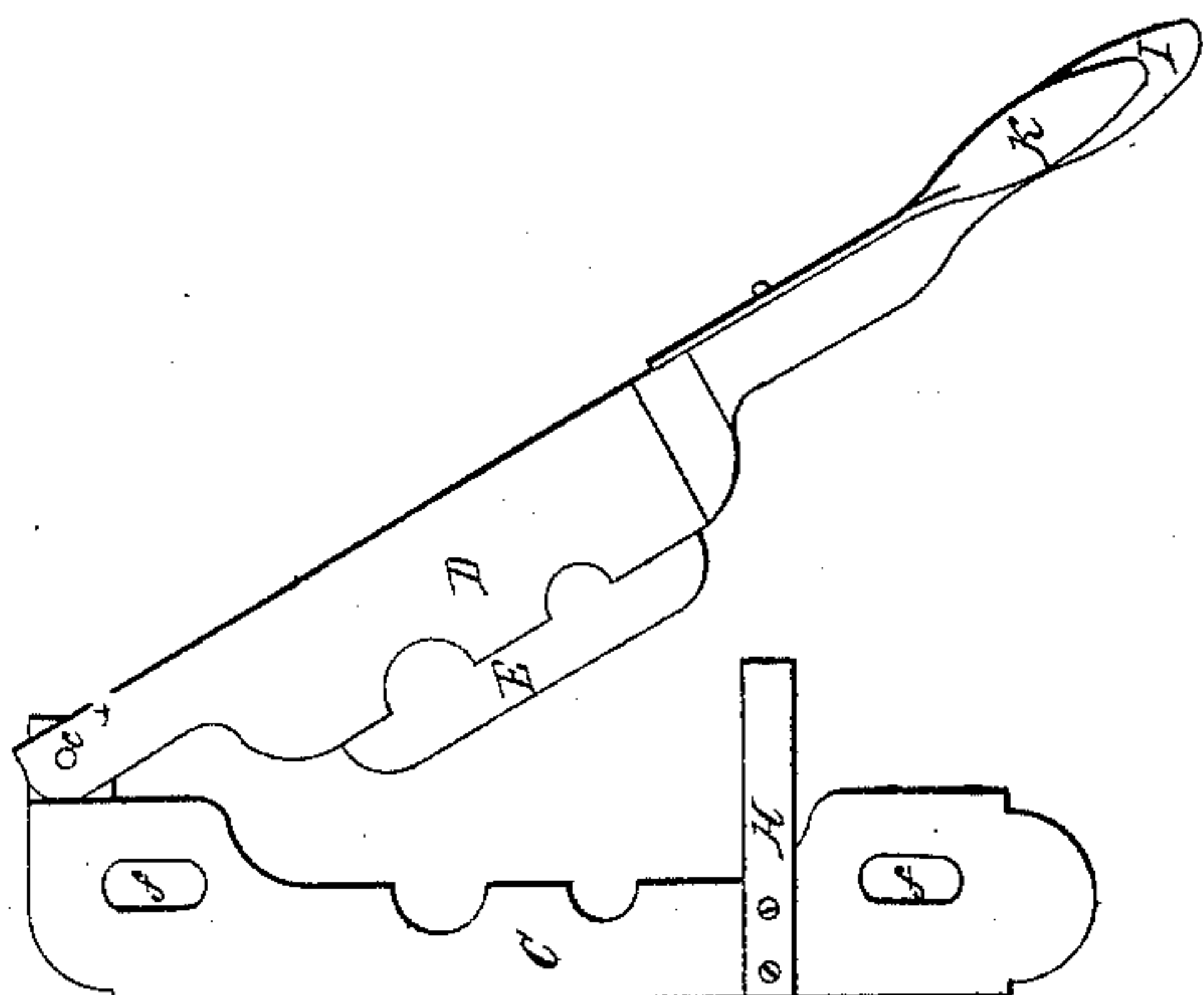


Fig. 6

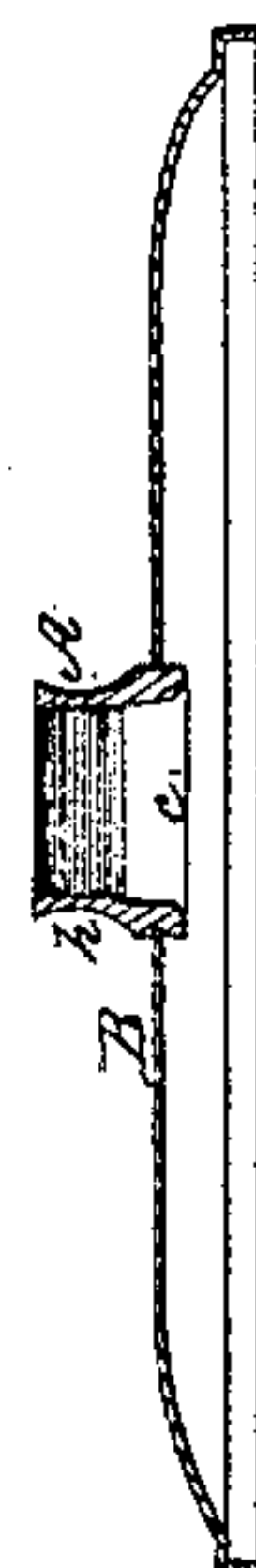


Fig. 1

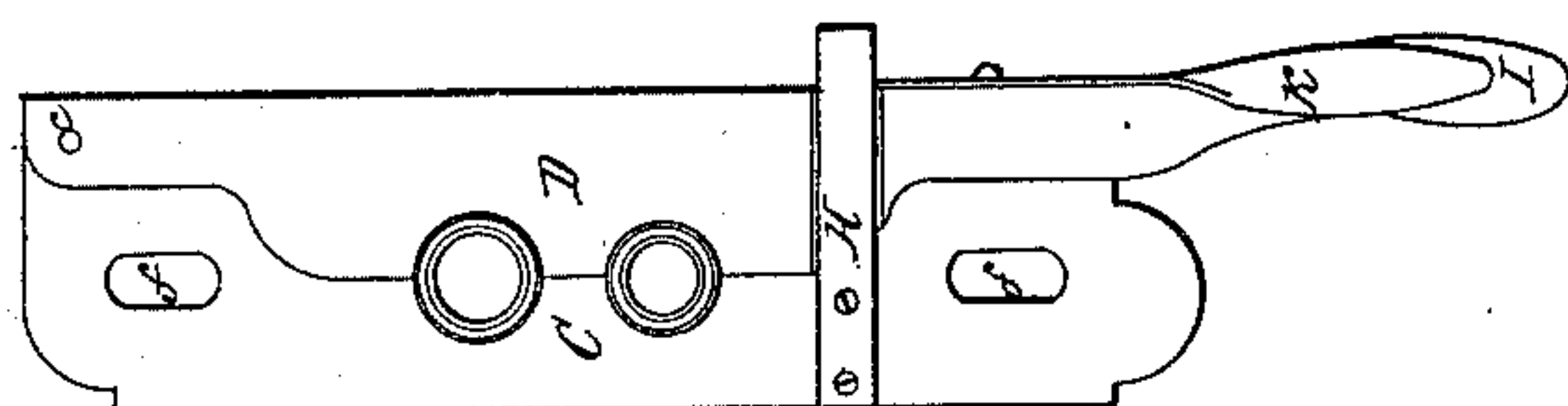
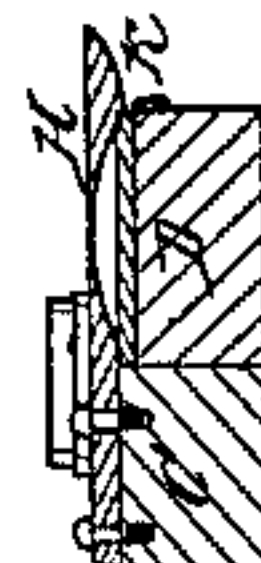


Fig. 4



Fig. 5



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UNITED STATES PATENT OFFICE.

HENRY O. LOTHROP, OF MILFORD, MASSACHUSETTS.

IMPROVED MACHINE FOR APPLYING SCREW MOUTH-PIECES TO CANS, &c.

Specification forming part of Letters Patent No. 57,524, dated August 28, 1866.

To all whom it may concern:

Be it known that I, HENRY O. LOTHROP, of Milford, in the county of Worcester and State of Massachusetts, have invented a new and useful Machine for Applying Screw Mouth-Pieces to Canteens, Cans, or various other vessels; and I do hereby declare the same to be fully described in the following specification and represented in the accompanying drawings, of which—

Figure 1 is a top view of it as closed. Fig. 2 represents it as open. Fig. 3 is an edge view of it, and Figs. 4 and 5 are transverse sections of it, one of such sections being taken through the shelf, and the other being taken through the spring-catch, to be hereinafter explained. Fig. 6 is a longitudinal section of a powder-can top plate and its mouth-piece.

The purpose of the said invention is to facilitate the fixation of a mouth-piece to a can by means of an upsetting die or tool and without the use of solder.

In Fig. 6 of the drawings, A is the mouth-piece, and B the top plate, to which it is affixed, such mouth-piece being provided with a female screw, *a*, to receive a cork or plug, or the equivalent thereof.

The mouth-piece, prior to being applied to the top plate, has the form shown in Fig. 7, it having an extension, *c*, and a shoulder, *d*. This extension is to go into a hole made in the can, and afterward is to be upset or spread over and down upon the metal by means of a punch of the form as shown in vertical section in Fig. 8.

My invention is designed to hold the mouth-piece firmly while the punch may be in operation, and this it does in a manner to prevent the screw of the mouth-piece from being injured either by the punch or by an expansion of the metal caused by it.

The machine is mainly composed of two jaw-plates, C D, and a shelf, E, the said plates being hinged together at one end of each, as shown at *e* in Figs. 1, 2, and 3. One of these jaw-plates—viz., that marked C—may have slots or holes *f f* made in it to receive screws for fastening it to a bench.

The shelf E projects from the inner edge of

one of the jaw-plates, and when they are closed together such shelf should enter a corresponding recess, F, made in the other jaw-plate. Above this shelf semicircular jaws or receivers *g g* are made in the two plates, they being arranged as represented, and there being one or more sets of such jaws. They are to be so formed as to fit to and clasp upon the neck *h* of the mouth-piece when the jaw-plates are closed together and upon it.

Each pair of jaws I generally place at a short distance above the shelf, in order that while they may be in the act of being closed on a mouth-piece they may raise it off the shelf, so as to prevent the downward pressure of the upsetting-punch from contracting the screw of the mouth-piece.

A spring-catch, H, is fastened to one jaw-plate, and extends over and catches on the edge of the other, and the said jaw-plate is furnished with a handle, I, and a lever, K, such lever being for throwing the catch out of action on the jaw-plate by a person's hand when hold of the handle, the whole being arranged as represented.

In using the machine, a mouth-piece is first to be laid on the shelf, after which the jaw-plates are to be closed together and upon such mouth-piece, they at the same time lifting it off the shelf, and finally supporting it. Next the can-top is to be placed on the extension *c* of the mouth-piece, and be fastened thereto by upsetting such extension upon such plate by means of the punch driven into and upon the extension.

I claim—

1. The mouth-piece-supporting machine as composed of the jawed plates and the shelf, made, arranged, and combined substantially as specified.

2. The arrangement and combination of the lever K with the handle I and the spring-catch H, applied to the two jawed plates, as specified.

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Witnesses:

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