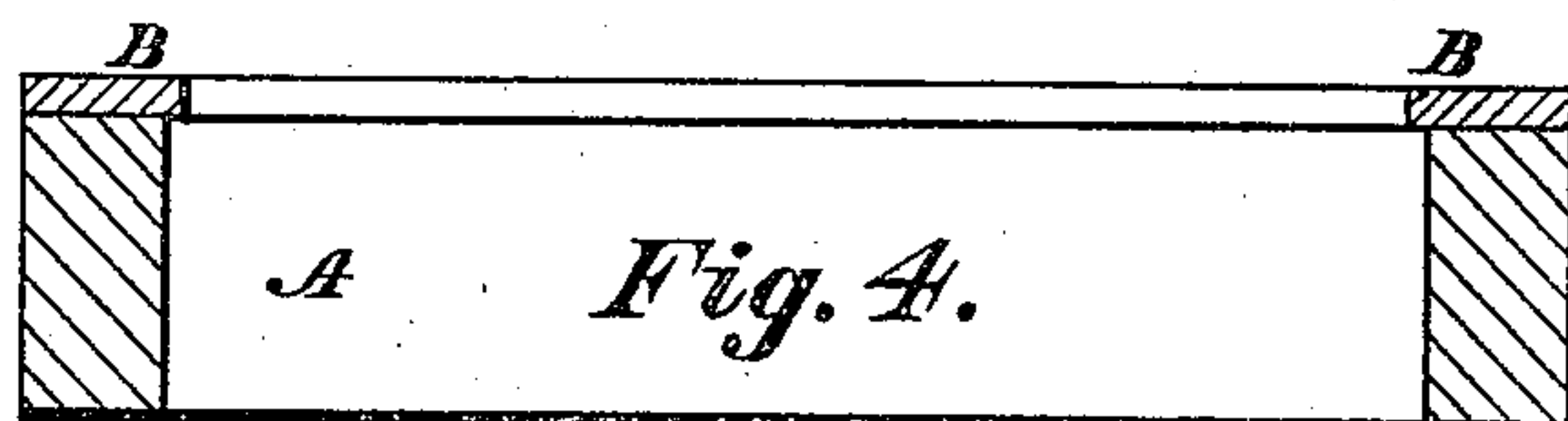
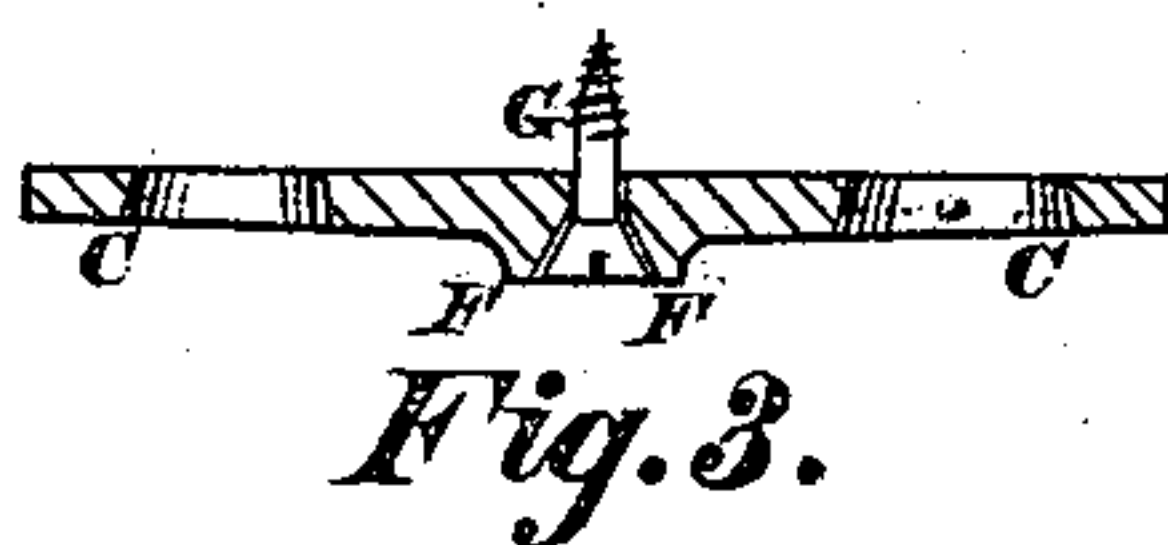
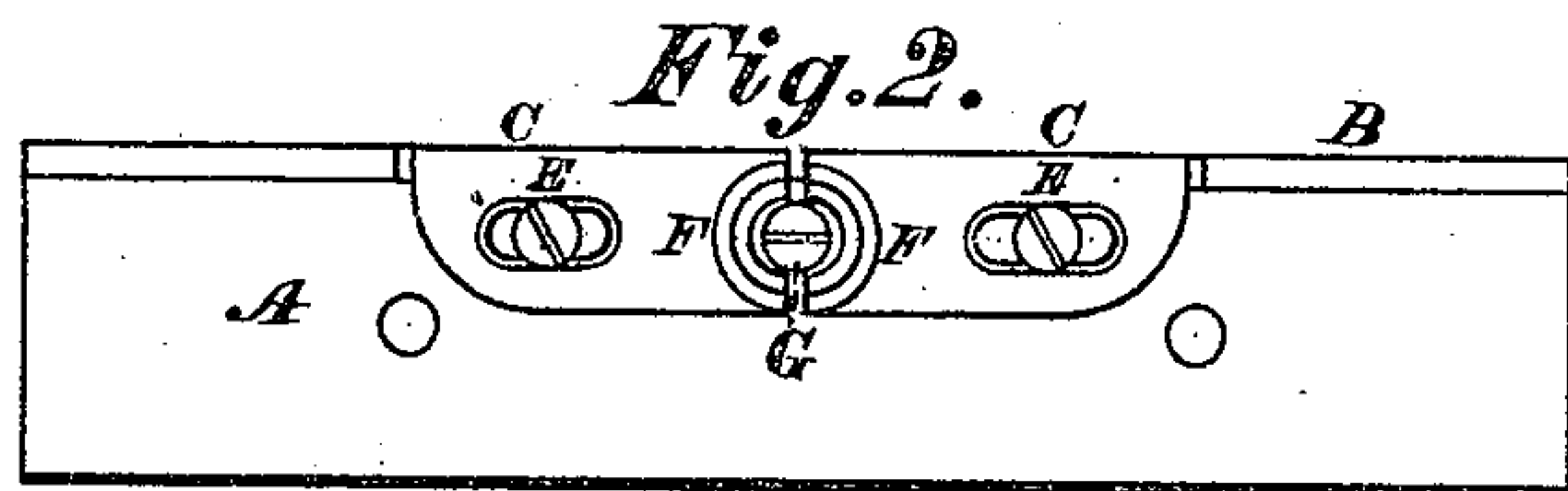
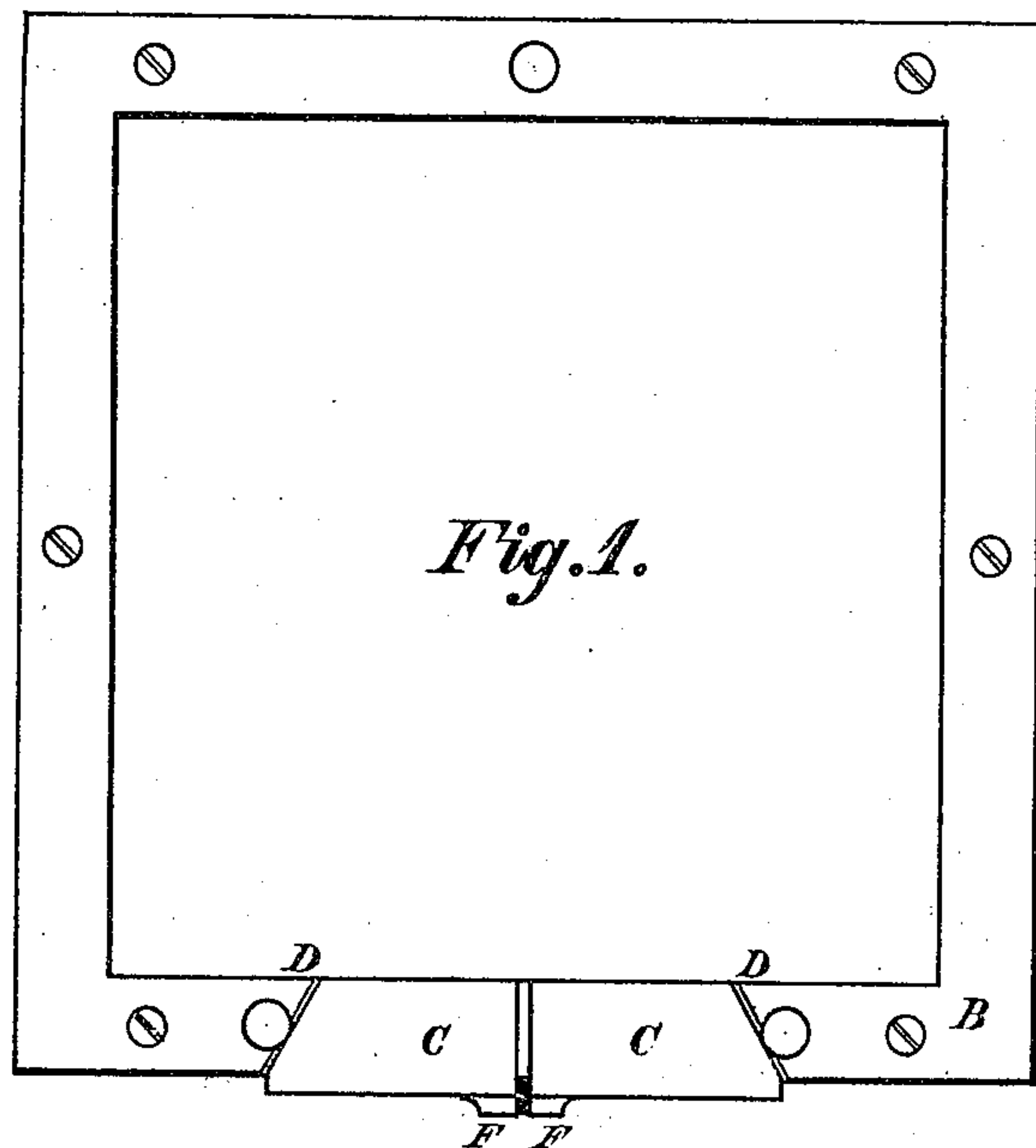


E. JOSSELYN.
MOLDERS' FLASKS.

No. 174,538.

Patented March 7, 1876.



Witnesses;
Joseph L. Bonney.
W. A. Mamon

Inventor;
Edwin Josselyn
Per Charles D. Moore
Att'y.

UNITED STATES PATENT OFFICE.

EDWIN JOSSELYN, OF LAWRENCE, MASSACHUSETTS.

IMPROVEMENT IN MOLDERS' FLASKS.

Specification forming part of Letters Patent No. **174,538**, dated March 7, 1876; application filed January 29, 1876.

To all whom it may concern:

Be it known that I, EDWIN JOSSELYN, of Lawrence, in the county of Essex and Commonwealth of Massachusetts, have invented an Improved Flask for Molding Metal, of which the following is a specification:

The object of my invention is to construct a flask with plates between its joining-edges, and with movable sections of plate, so that the dowels or pins can be, by the expanding of such section, tightened, and the flask prevented from shucking and causing bad work, and having its metallic plates projecting within for the purpose of holding sand more securely within the same; and I do declare that the following is such a full, clear, complete, and exact description thereof that others skilled in the art to which it appertains can make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, like letters representing the same parts in each of the figures, of which—

Figure 1 is a top view of a flask, showing the plates and movable sections, and their points of contact with dowel-holes; Fig. 2, a side view, showing the movable sections and the manner in which they are expanded; Fig. 3, a section of movable sections, showing the manner in which they are expanded; and Fig. 4 a section of a flask, showing the manner in which the plate is applied.

A, a frame or flask designed to contain sand forming a mold; B, plates of metal covering the joining-edges of a flask, and designed to protect the same from wear and tear; and also designed to hold the sand in the flask, projecting slightly over the edge, as shown in Fig. 4; C C, movable sections, slotted and held to the frame by the screws E E, and so constructed as to be expanded by the screw G, and having its points of contact with plates at an angle, (less than a right angle,) as

shown in Fig. 1, and designed to tighten the dowels or pins D D to prevent all shucking; D D D, dowel or pin sockets, designed to receive the pins of the cope; E E, slots through which bolts or screws are passed to hold the movable sections in place, and allow a lateral movement of the same, and designed to allow such movement; F F, flanges attached to C C, having their joining-ends inclined, and designed to receive a wedge-screw between the same, as shown in Fig. 3; also designed to carry the plates C C in tightening the cope-pins; G, a wedge-screw, designed to expand the movable plates C C.

Fig. 4 shows the manner in which the plates are applied, and their projection within, to hold sand when molded therein; and it is designed to apply a bead of metal within a flask for a like purpose.

To use my said improvement, after clamping the cope to nowel in the usual way, turn the screw G, forcing its wedging-head between the inclined flanges F F; the plates C C are forced against the pins inserted in D D, which securely hold the same in place, and prevents all moving of cope over nowel.

Having thus described my said invention, I claim as new, and desire to secure by Letters Patent, the following, to wit:

1. The combination of the movable plates C C, their flanges F F, their slots E E, and screw G, with frame A and plates B, in a manner substantially as and for the purpose herein described and set forth.

2. The combination of the plates C C and flanges F F with the screw G, in a manner substantially as and for the purpose herein described and set forth.

EDWIN JOSSELYN. [L. S.]

Witnesses:

CHAS. H. CUTTER,
CHAS. D. MOORE.