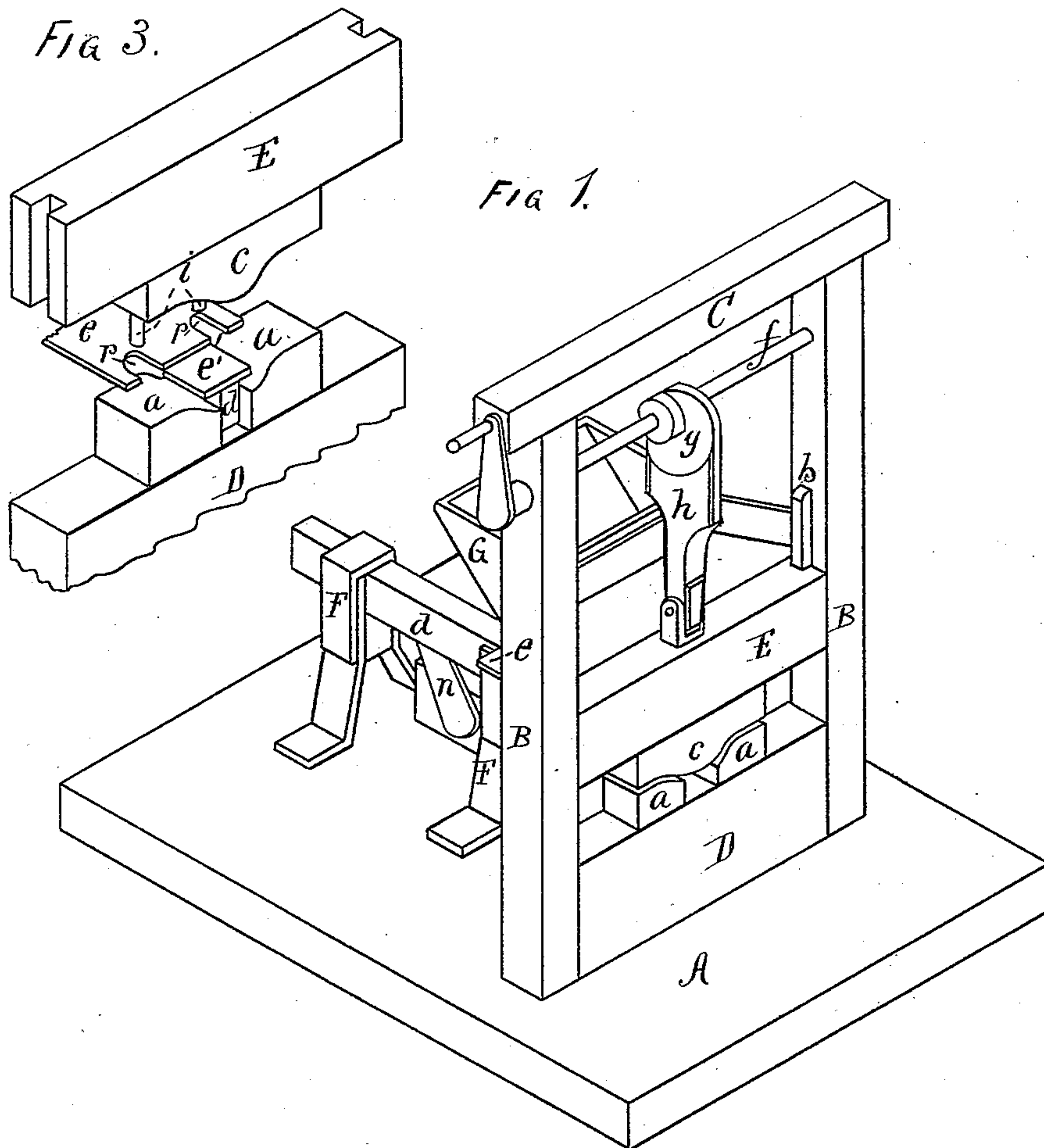


G. O. JENKINS.
Machine for Forming Metallic Shoe-Shanks.
No. 226,232. Patented April 6, 1880.



WITNESSES
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UNITED STATES PATENT OFFICE.

GEORGE O. JENKINS, OF SOUTH ABINGTON, MASSACHUSETTS.

MACHINE FOR FORMING METALLIC SHOE-SHANKS.

SPECIFICATION forming part of Letters Patent No. 226,232, dated April 6, 1880.

Application filed August 29, 1879.

To all whom it may concern :

Be it known that I, GEORGE O. JENKINS, of South Abington, in the county of Plymouth and State of Massachusetts, have invented certain new and useful Improvements in Machines for Forming Metallic Shoe-Shanks, of which the following is a specification.

This invention is an improvement on the machine described in Letters Patent No. 216,329, granted to H. H. Jenkins on the 10th of June 1879; and it consists in certain improvements in the feed-plate and co-operating devices, which improvements are hereinafter fully set forth and particularly claimed.

Figure 1 is a perspective view of a machine embodying my invention. Fig. 2 is a sectional side elevation, with a portion of the frame broken away; and Fig. 3 is a perspective view of the two pieces C and D, with the dies *a* and *c* affixed thereto respectively, and so separated as to show the feed-plate *e* and *e'*, pins *i i*, and slots *p p*.

A is the base of the machine, from which rise uprights *B B*, connected at their upper ends by the cross-piece *C* and at the lower ends by the cross-piece *D*, resting on the base *A*.

On the piece *D* is fixed the stationary die *a*, above which is the cross-piece *E*, sliding upon guideways *b b* on the inner sides of the uprights *B B*. On the under side of *E* is the movable or male die *c*, which fits into the die *a*.

F F are two uprights, through the upper ends of which is the feed-bar *d*, adapted to slide directly forward and back through the upper ends of *F F*, but having no other motion. On the end of this feed-bar next to the dies, and affixed to the feed-bar, is the feed-plate *e*, the upper surface of which is on a plane with upper surface of the die *a*, and having its forward extremity lower than the other portion of it, the depression being equal to the thickness of a blank. This portion of the plate (marked in the drawings *e'*) is also narrower than the rest of the plate, so as to pass readily, with a blank resting on it, within the curved face of the die *a*.

G is the hopper for holding the straight blanks to be formed. *f* is a shaft actuated in

any suitable manner, in the center of which is the cam *g*, connected with the connecting-rod *h*, by means of which the die *c* is forced down upon the blank resting upon the die *a*, and raised when the blank has been shaped.

Affixed to the die *c* near its inner face are two pins, *i i*, the office of which is to remove the blanks from the feed-plate *e* upon its backward motion.

j is an eccentric, and *m*, *n*, and *o* cranks, by means of which the feed bar and plate *d* and *e* are moved forward and back. *p p* are slots in the plate *e* for the passage of the pins *i i*.

The operation of my invention is as follows: The straight blanks pass from the hopper *G*, one at a time, to the extremity *e'* of the feed-plate *e*, upon which the blank rests on its side, the plate *e* being in its state of rest in such position that the slots *p p* extend outside of the bottom of the hopper, so as to enable the pins *i i*, in descending, to pass through the inner extremities of the slots *p p* without disturbing the blank to be shaped. Motion being then imparted to the shaft *f*, the feed bar and plate *d* and *e* move forward with the blank resting on *e'* until the blank is upon the center of the surface of the die *a* and directly under the die *c*. At this time the feed bar and plate begin to recede and the die *c* to descend. As *d* and *e* recede the pins are brought against the edges of the blank and remove it from the plate *e*, leaving it on the die *a*, where it is shaped by the die *c* descending upon it. As the next blank moves forward the shank just shaped is pushed away by the end of the plate, *e'*.

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

In a machine for forming metallic shoe-shanks, the feed-bar *d*, feed-plate *e*, with the slots *p p* and depressed end *e'*, the male die *c*, with the pins *i i*, and the female die *a*, in combination, as and for the purpose specified.

GEO. O. JENKINS.

Witnesses:

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