J. PALMER.

Dies for Forming Hatchet Claws.

No. 163,399. Patented May 18, 1875.

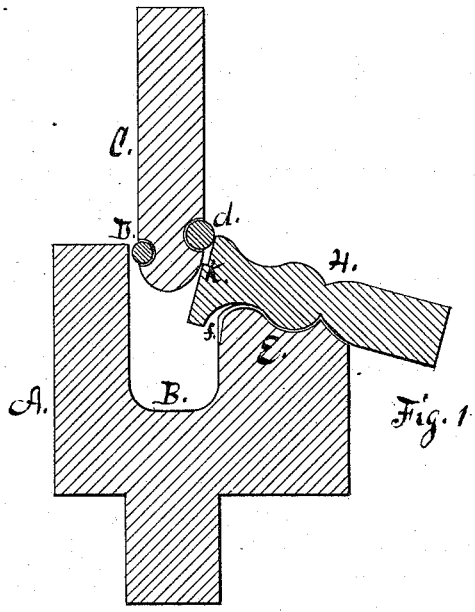

Fig. 1

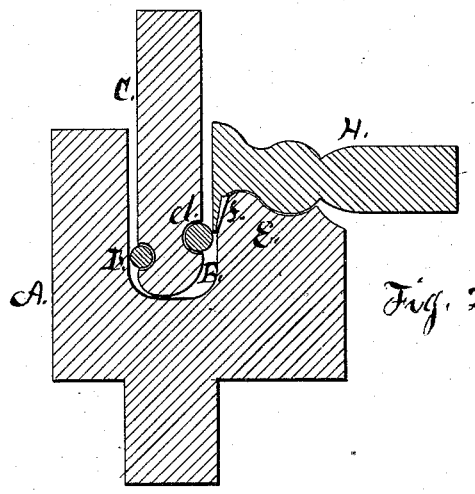

Fig. 2

Witnesses

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UNITED STATES PATENT OFFICE.

JESSE PALMER, OF NEWARK, NEW JERSEY, ASSIGNOR TO CHARLES A. DE HART, OF SAME PLACE.

IMPROVEMENT IN DIES FOR FORMING HATCHET-CLAWS.

Specification forming part of Letters Patent No. **163,399**, dated May 18, 1875; application filed April 17, 1875.

To all whom it may concern:

Be it known that I, JESSE PALMER, of Newark, in the county of Essex and State of New Jersey, have invented a certain Improved device for Drawing out the Claws of Hatchets, of which the following is a specification:

My invention consists in devices employed in drawing out hatchet-claws, which otherwise have been drawn out by hand.

Figure 1 is a section view, showing the machine open, and the hatchet in blank, as it is cut out, lying in position to be drawn out. Fig. 2 is the same section with the machine closed and the claw worked into shape.

In the ordinary process of manufacturing hatchets we cut out the blanks, represented by H in Fig. 1; but we cannot cut out the claw as thin as is required for use, and the crease or parting in the claw cannot be cut out. We have, then, after these blanks are cut out, to hammer out the claw and crease by hand; but this work I expedite and cheapen by the invention which is the subject of this application.

A is a metal bed, secured in some solid position, in which is the notch B, into which the end of the plunger C is, by a crank or lever, made to work. This plunger has on one side the roll D to relieve the friction in working, and on the other side the roll *d* to press down the claw. The end E of the bed is made on the top in the shape to correspond to the lower edge of a hatchet; and grooves *f* are also cut in this bed next to the notch to provide for the formation of the claw in them; and when the plunger is up the blank hatchet H, heated, is laid on this form with the claw end projecting over into the notch. The plunger then passes down and the roll *d* strikes the claw at the shoulder *k* and in its continued descent rolls the metal down thin and into the grooves to give the crease and the inside shape of the claw, as seen in Fig. 2. The plunger having done its work rises out of the notch and the operation is repeated.

The position of this machine may be so changed as that it may be turned over to a horizontal, and the principle of action be the same.

I claim—

In the device for forming a hatchet-claw the combination of the bed A and plunger C, substantially as shown, and for the purpose specified.

JESSE PALMER.

Witnesses:

HORACE HARRIS,

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