(No Model.)

C. O. PARKER.

JACK FOR SLUGGING MACHINES.

No. 429,862. Patented June 10, 1890.

FIG. 1.

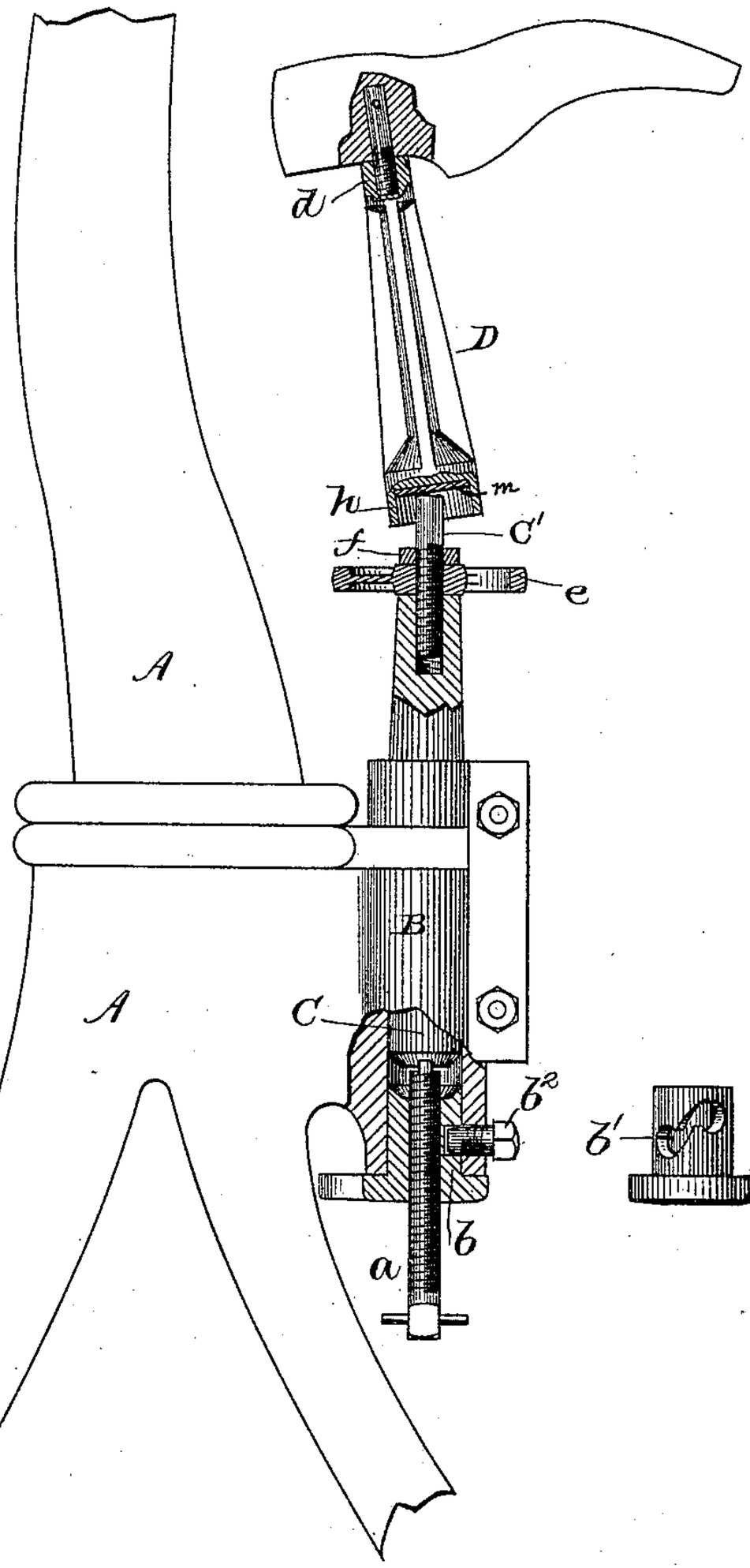

FIG. 2.

WITNESSES

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CHARLES O. PARKER, OF NATICK, MASSACHUSETTS, ASSIGNOR TO THE WIRE GRIP FASTENING COMPANY, OF CHICAGO, ILLINOIS.

JACK FOR SLUGGING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 429,862, dated June 10, 1890.

Application filed February 10, 1890. Serial No. 339,851. (No model.)

To all whom it may concern:

Be it known that I, CHARLES O. PARKER, of Natick, county of Middlesex, State of Massachusetts, have invented an Improvement in Jacks for Slugging-Machines, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

Many dealers in shoes demand that the heels be slugged partially or wholly around the top lift to prevent wearing the heel, and also to add to the appearance or finish of the shoe-heel. The slugging is chiefly done by hand, one slug being driven at a time. Much difficulty is experienced in driving these slugs at the established angle or slant so that their heads stand in the proper place and direction one with relation to the other, and so that the points of the slugs will not turn outwardly to injure the heel.

In accordance with this invention the last is placed upon a heel-pin of a post, which rests at its lower end on a pivot at the upper end of a spindle adapted to be elevated quickly at the proper time to place the end of the heel at the proper height to have the slug driven into it, and, the heel having been slugged, to permit the spindle to descend for the removal of the post and last. As the heels to be slugged vary in height, I have combined with the spindle a screw and a hand-wheel, so that the operator with one hand on the hand-wheel and while the other hand is on the post or shoe on the last may accurately adjust the height of the post to the particular height of heel.

Figure 1, in elevation and section, represents a sufficient portion of a nailing-machine with my improvements added to enable my invention to be understood. Fig. 2 shows the spindle-lifting cam removed.

The frame-work A is supposed to be part of a machine such as shown in United States Patents Nos. 346,128 and 380,662, for improvements in machines for uniting soles to uppers, the said patents showing mechanism for inserting metallic fastenings into leather, and with this my present invention I shall in practice employ usual or suitable devices—such, for instance, as shown in the said patents—to hold and feed a metallic wire or strip the cross-sectional form of which corresponds to the cross-section desired for the slug, the said devices inserting the end of the said wire or strip into the top lift, and the said wire or strip being then cut off close to the stock to form a slug; but as such mechanism is not to be herein claimed it has not been shown in the drawings. The patents referred to have a horn or spindle supporting the boot or shoe while the upper and sole are being united. In this my present invention I employ a spindle C, which is inserted in a sleeve B of the frame A. This spindle C has at its upper end a pin or projection C′, on which rests loosely the foot of a post D, so that the post is free to tip thereon. The post D has a heel-pin *d*, which may be of any usual kind, to enter a hole in the last, which may be of any usual or known construction—wood or metal or wood and metal. The lower end of the spindle (see Fig. 1) is connected to the upper end of a screw *a* by means of a slot in one and a projection in the other, as shown in Fig. 1. The screw *a*, constituting an adjusting device for the spindle, is held in the hub of a lifting-lever *b*, (shown detached in Fig. 2,) the said hub having a cam-slot *b′*, into which is entered the inner end of a stud-screw b^2 when the said hub is placed in the lower end of the sleeve B. A partial rotation of the lever *b* when the stud-screw b^2 is in the slot *b′* enables the spindle and post thereon to be elevated preparatory to slugging the heel and to be lowered after the slugging operation.

The heels to be slugged vary in height, and to enable the top lift of the heel to come to just the proper level or height when the lever *b* is moved to lift the spindle, I have provided the spindle with a hand-wheel *e* within easy reach of the operator standing in front of the machine and holding the post, the rotation of the hand-wheel effecting the turning of the spindle, and the latter, connected with the screw *a*, as described, rotates the screw in the hub of the lever *b*, thus effecting the adjustment of the spindle and post vertically with relation to the raising and lowering lever *b*. If it were not for

the hand-wheel *e*, the operator would have to stoop or kneel down on the floor and turn the screw *a* by hand to effect this adjustment, and as the spindle has to be frequently adjusted in an hour the use of the hand-wheel saves very much time and enables the operator to slug many more heels in an hour than could be done if the hand-wheel were omitted.

To slug heels properly, it will be understood that the top-lift end of the heel must be presented at an angle to the nose or throat of the apparatus to insert the wire or strip to form the slugs, so that the end of the wire or strip may enter the heel at the proper angle and be then cut off to form a slug. To secure this angular presentation in a simple manner, I have mounted the last to hold the shoe having the heel to be slugged on the post D, which the operator will grasp in one hand, while with the other hand on the shoe he moves the latter under and presents the top-lift end of the heel to the usual nose or throat of the apparatus to insert the wire.

To enable the post to tip on the spindle, and also to slide thereon diagonally, as desired, and yet not slip off the spindle, I have made the connection between the said spindle and post by a projection on one entering a socket in the other, the bottom of the said socket being shown as a plane surface substantially at right angles to the longitudinal center of the post. The projection referred to is marked C′, it being shown as a screw. The screw has surrounding it the hand-wheel *e*, and a lock-nut *f* normally holds the hand-wheel to the spindle to turn therewith. When it is desired to adjust the projection C′ with relation to the spindle, the lock-nut is loosened and the projection raised or lowered by rotating it in the spindle. The socket is shown as formed at the lower end of the post, a wall or curb *h* being left, and to avoid noise and prevent slipping the said socket is furnished with a packing *m*, preferably a piece of sole-leather.

I am aware that jacks for holding boots and shoes to be nailed have been made movable on a stand or table, and that a jack has been mounted on a pivoted spindle.

Although I prefer to do the slugging by the mechanism referred to, yet my invention may be employed to advantage with any usual suitable nailing-machine and the slug be cut off, if desired, before it is driven, and loose slugs might be also driven from a machine containing usual mechanism to present them one after another to the nose or driver.

I claim—

1. In a jack for slugging-machines, the spindle having a hand-wheel, and the sleeve B to receive the spindle, combined with a screw engaged by the lower end of the spindle, and a hub to support the said screw, whereby rotation of the spindle effects its vertical adjustment, substantially as described.

2. In a jack for slugging-machines, the sleeve B, having a stud or projection, the lever *b*, having a cam-slotted hub to be entered by the said stud or projection and fitting the said sleeve, and the screw *a*, combined with the spindle and its attached hand-wheel, to operate substantially as described.

3. In a jack for slugging-machines, the sleeve having a stud or projection, the lever having a cam-slotted hub to be entered by the said stud or projection and fitting the said sleeve, and the screw *a*, combined with the spindle and its attached hand-wheel and with a post having a heel-pin, the foot of the post being free to tip and slide on the top of the spindle, as and for the purposes set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

CHARLES O. PARKER.

Witnesses:
BERNICE J. NOYES,
FREDERICK L. EMERY.