

(No Model.)

J. W. RAPP.
HORSESHOE SHARPENER.

No. 490,499.

Patented Jan. 24, 1893.

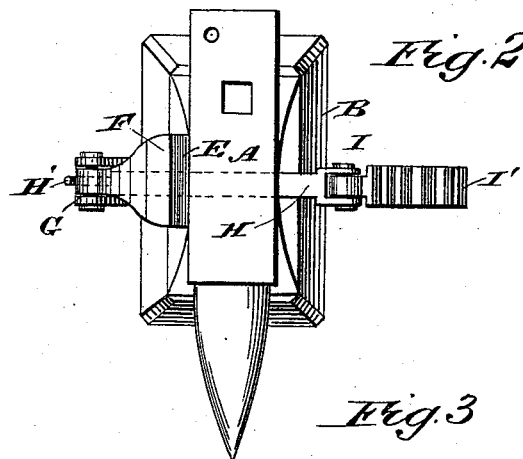
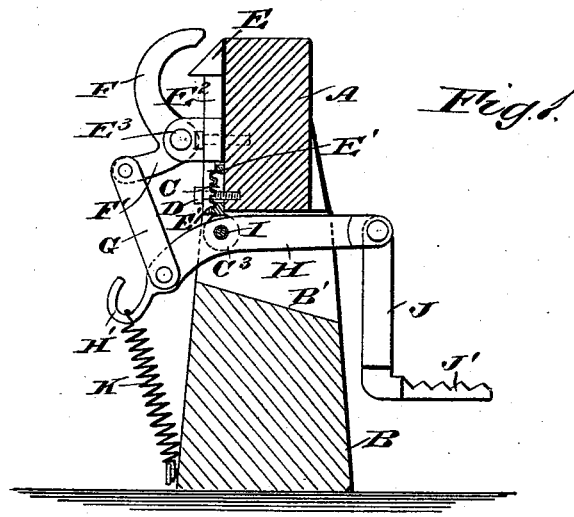


Fig. 4

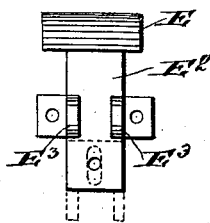


Fig. 3

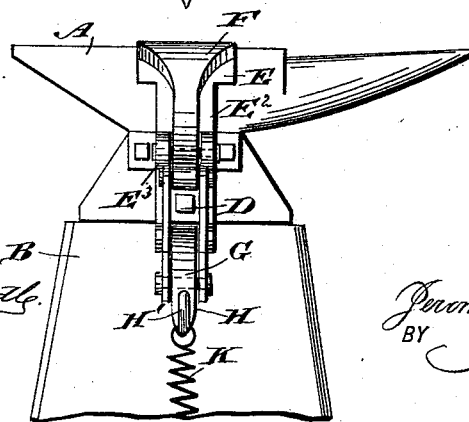
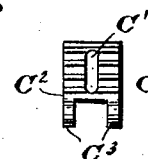


Fig. 5



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JEROME W. RAPP, OF PINEVILLE, PENNSYLVANIA.

HORSESHOE-SHARPENER.

SPECIFICATION forming part of Letters Patent No. 490,499, dated January 24, 1893.

Application filed July 29, 1892. Serial No. 441,621. (No model.)

To all whom it may concern:

Be it known that I, JEROME W. RAPP, of Pineville, in the county of Bucks and State of Pennsylvania, have invented a new and Improved Horseshoe-Sharpener, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved horse-shoesharpener which is simple and durable in construction, very effective in operation and arranged to firmly hold the shoe to the anvil to enable the operator to give the proper angle to the calks.

The invention consists of certain parts and details and combinations of the same, as will be hereinafter described and then pointed out in the claims.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a transverse section of an anvil with the improvement applied; Fig. 2 is a plan view of the same; Fig. 3 is a front view of the same; Fig. 4 is a face view of the die; and Fig. 5 is a like view of the keeper for the die.

The anvil A, on which the improvement is applied, is set on the usual foundation B, and carries at the front a keeper C, fastened to the anvil by a bolt D, which passes through an elongated slot C', in the said keeper so as to permit of adjusting the latter vertically on the front of the anvil. On the face of the keeper C are formed ridges or teeth C², engaged by correspondingly-shaped ridges or teeth E', formed on the back of a shank E², supporting or carrying at its upper end the die E, the face of which extends at an angle to the top or face of the anvil A. The bolt D passes through an opening in the shank E², so as to fasten the latter in place on the keeper, at the same time passing through the latter to the anvil A.

On the sides of the shank E² of the die E are formed lugs E³, carrying a pivot for the lever F, having its upper curved end extending opposite the die E, so that when the lever is swung inward it serves to clamp the shoe in place on the die E to permit the operator to sharpen the calks and toes. The lower end F' of the lever F is pivotally-connected by a link G with a lever H fulcrumed on a pin I

held in lugs C³ extending from the lower end of the keeper C. The lever H passes transversely through a slot B' formed in the foundation B, the said lever extending to the back of the anvil and is pivotally-connected at this end with an arm J, hanging downward and formed with a rearwardly-extending foot piece J' adapted to be engaged by the operator's foot to actuate the lever F to clamp the horse-shoe in place, as above described.

On the lever H at the front end thereof is formed a hook H' connected with a spring K attached at its lower end to the foundation B. The spring K serves to hold the lever F away from the die E until the operator presses the foot piece J' to actuate the said lever as above described.

It will be seen that the operator can conveniently place the shoe in position for sharpening the calks and clamp the shoe in place by simply pressing on the foot piece J'.

It will be seen that the operator has both hands free to manipulate and work on the shoe and at the same time the latter is securely held in place on the anvil. The holder C is made vertically adjustable on the anvil so as to readily fit the die in the proper place so as not to project above the top of the anvil.

Having thus fully described my invention I claim as new and desire to secure by Letters Patent,—

1. In a horse shoe sharpener, the combination with a keeper provided with lugs, of a die having its shank secured to the keeper and provided with lugs, a clamping lever pivoted to the lugs of the die shank, a spring pressed operating lever pivoted to the lugs of the keeper, and a link pivoted to the clamping lever and to the operating lever, substantially as described.

2. In a horse-shoe sharpener, the combination with a vertically-adjustable keeper provided with teeth, of a die formed with teeth engaging the said teeth of the keeper, a bolt for fastening the said die to the said keeper, and the latter to the anvil, a lever pivoted on the shank of the said die, a link connected with the said lever, a spring pressed lever pivoted on the said keeper and connected with the said link, and an arm pivoted on the said spring pressed lever and provided with a foot piece, substantially as shown and described.

3. A horse shoe sharpener, comprising a slotted keeper provided with teeth and depending lugs, a die having its shank provided with lugs and with teeth engaging the teeth
5 of the keeper, a bolt for securing the keeper and die together and the keeper to an anvil, a curved clamping lever pivoted to the lugs of the die shank, an operating lever pivoted to the lugs of the keeper, a link pivoted to the said levers, and an arm pivoted to the 10 operating lever and provided with a foot piece, substantially as herein shown and described.

JEROME W. RAPP.

Witnesses:

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