(No Model.)

J. HOUCK.

HORSESHOE ANVIL.

No. 410,972. Patented Sept. 10, 1889.

Fig. 1

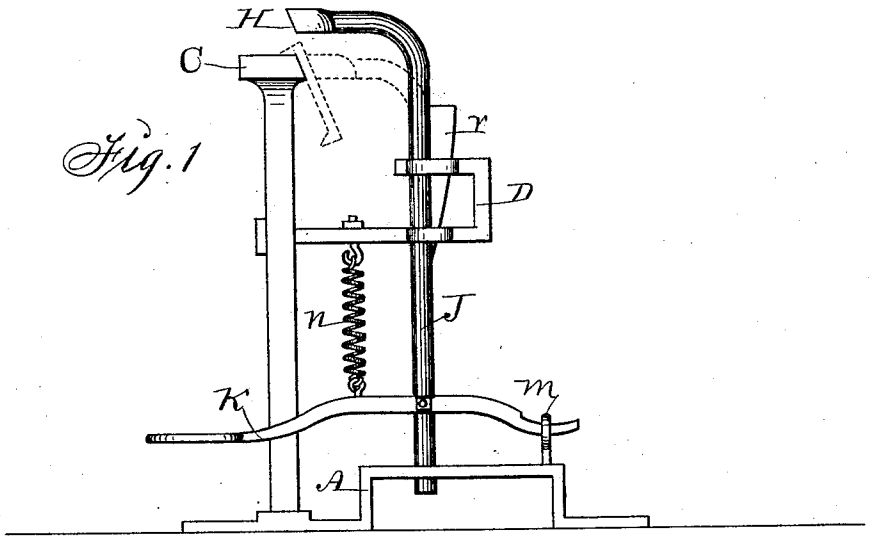
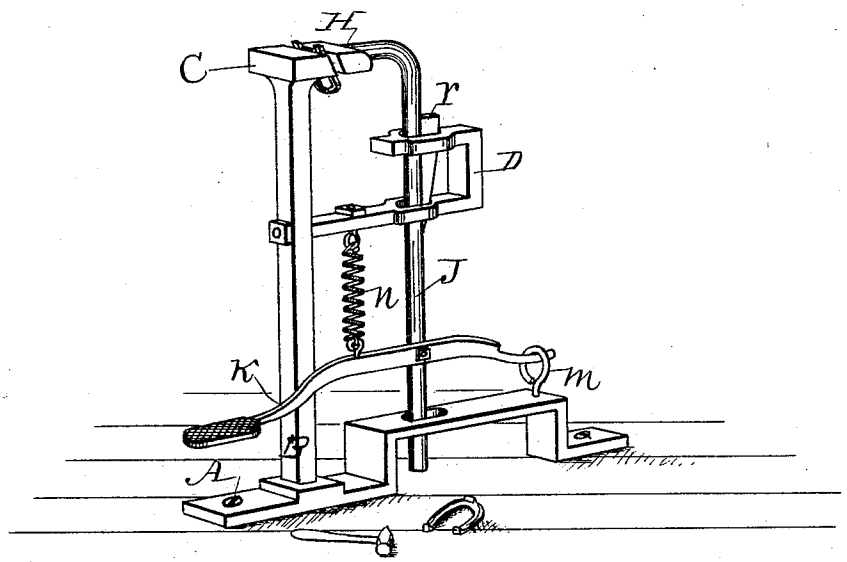


Fig. 2



Witnesses:
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UNITED STATES PATENT OFFICE.

JACOB HOUCK, OF ANITA, IOWA.

HORSESHOE-ANVIL.

SPECIFICATION forming part of Letters Patent No. 410,972, dated September 10, 1889.

Application filed April 5, 1889. Serial No. 306,125. (No model.)

To all whom it may concern:

Be it known that I, JACOB HOUCK, a citizen of the United States of America, and a resident of Anita, in the county of Cass and State of Iowa, have invented an Anvil and Horseshoe-Holding Device, of which the following is a specification.

My object is to facilitate the forming of calks on the heels and toes of horseshoes; and my invention consists in the construction and combination of an anvil on a post and an adjustable clamping device adapted to be operated by foot-pressure to clamp a horseshoe to the anvil, as hereinafter set forth.

Figure 1 of the accompanying drawings is a side view of the machine, showing the clamp or shoe-holding device in its normal position, as required to admit a horseshoe to be placed upon the anvil. Fig. 2 is a perspective view showing a horseshoe held to the anvil, as required to form calks on the heels.

A is a cast-metal base that has perforations in its ends, adapting it to be fixed upon a floor or portable broad base that will retain the machine perpendicular. The central portion of the metal base is arched and provided with a slot through which the clamping device extends.

B is a post fixed to the base A to project perpendicularly.

C is an anvil formed on or fixed to the top of the post. It is rectangular in shape and beveled on its inner side, so that a shoe clamped thereto will be in an inclined position.

D is a frame fixed to the central portion of the post B, to project horizontally, to serve as a bearing for the operative clamping device.

H is a jaw adapted in shape to engage the inner inclined edge or face of the anvil. J is an elbow-shaped staff, preferably formed integral with the jaw, that extends down parallel with the post through slots in the bearing-frame D and the slot in the arch of the base A in such a manner that it will have restricted lateral motion at the same time that it moves up and down.

K is a treadle pivoted to the lower end of the staff, and connected with the base, by means of a hook or eye *m*, in such a manner that it will project horizontally at the side of the post and in convenient position to be engaged by the foot of the blacksmith while he is handling a hammer to form calks on a shoe clamped to the anvil by means of his foot-pressure.

n is a spring fixed to the frame D and the treadle in such a manner that it will in its normal condition retain the treadle, staff, and jaw elevated, as shown in Fig. 1.

r is a wedge-shaped cam formed on or fixed to the staff J in such a manner that it will traverse the slots in the frame D as the staff moves up and down. A downward motion causes the cam to press the staff toward the anvil, as required to bring the jaw in contact with a horseshoe to clamp it fast to the anvil. A reverse motion of the staff releases the shoe and elevates the jaw. When calks have been formed on one end of the shoe, the pressure of the foot is relaxed, so the shoe can be adjusted as required to calk the heel and toe.

I claim as my invention—

1. A machine for holding and calking horseshoes, comprising an anvil on the top of a post fixed to a suitable base, a frame and bearing fixed to the post to support a staff carrying a jaw, a jaw or clamping device adapted to engage the anvil and provided with a supporting-staff that extends down through the bearing, a cam fixed to the staff to press it toward the anvil as the staff descends in its bearing, a treadle pivoted to the staff and connected with the base, and a spring connected with the treadle to lift the staff and jaw, constructed and combined to operate in the manner set forth, for the purposes stated.

2. The base A, the post B, having an anvil C on its top, the frame D, fixed to the post, the jaw H on a staff J, having a cam *r*, the treadle *k*, and a spring *n*, constructed, arranged, and combined substantially as shown and described, to operate in the manner set forth, for the purpose stated.

JACOB HOUCK.

Witnesses:
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