(No Model.)

M. ROCHE.

HORSESHOE CALK BENDING DEVICE.

No. 542,396. Patented July 9, 1895.

Fig. 1.

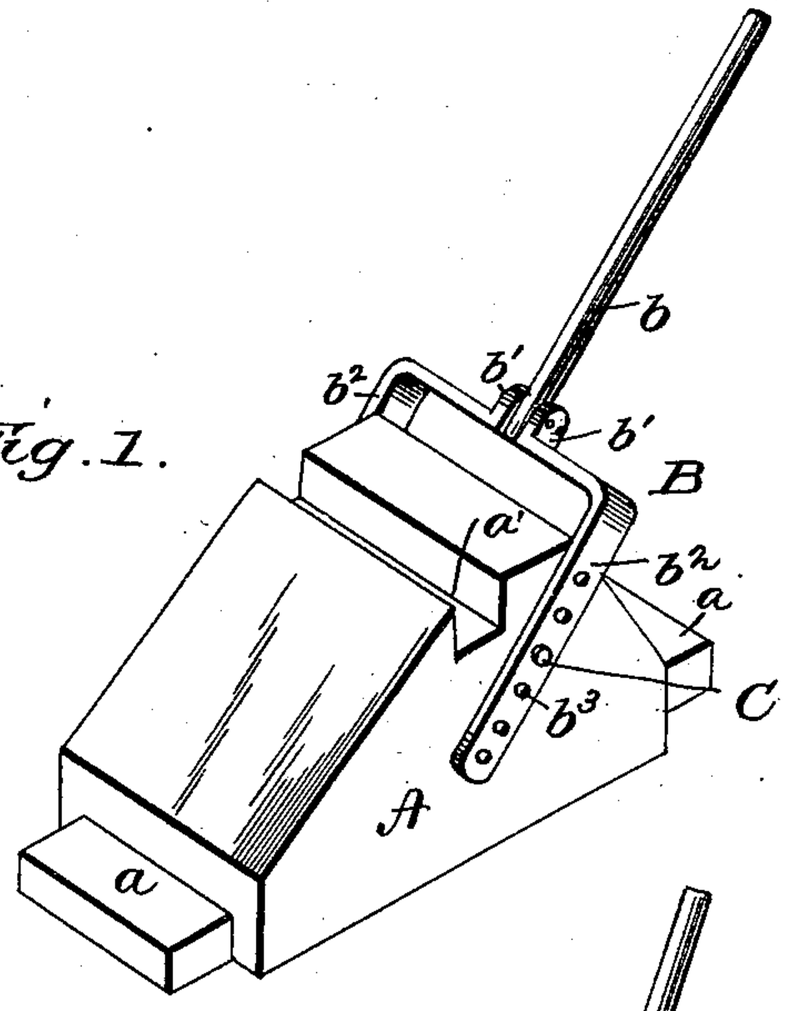


Fig. 2.

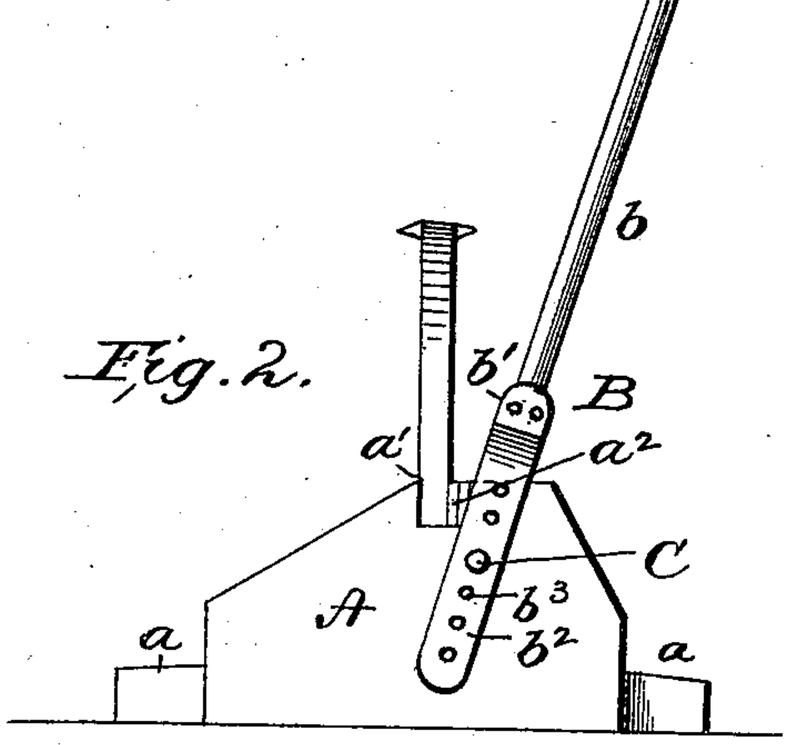


Fig. 3.

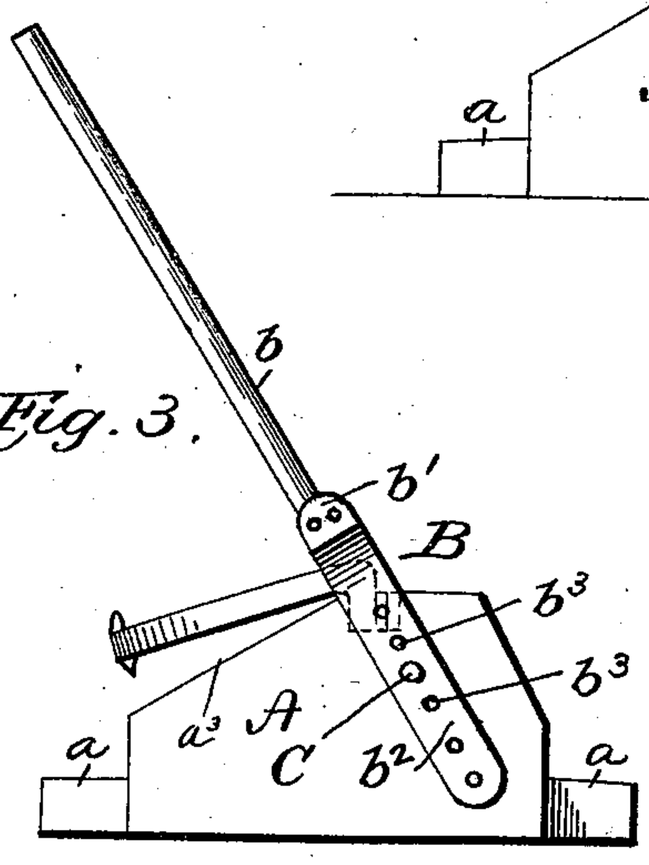
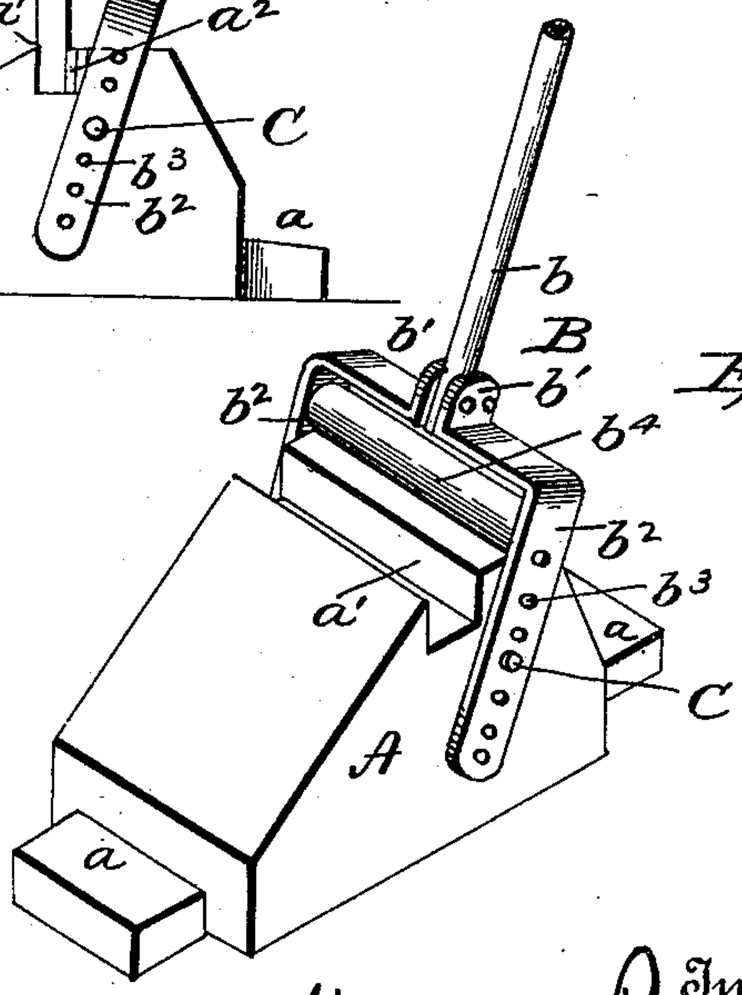


Fig. 4.



Witnesses
F. L. Ourand.
A B. Morgan.

Inventor
Morgan Roche
by S. L. Fitzgerald
Attorney

UNITED STATES PATENT OFFICE.

MORGAN ROCHE, OF NEWARK, NEW YORK.

HORSESHOE-CALK-BENDING DEVICE.

SPECIFICATION forming part of Letters Patent No. 542,396, dated July 9, 1895.

Application filed April 17, 1896. Serial No. 546,055. (No model.)

To all whom it may concern:

Be it known that I, MORGAN ROCHE, a citizen of the United States, residing at Newark, in the county of Wayne, State of New York, have invented certain new and useful Improvements in Horseshoe-Calk-Bending Devices; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to a device for bending calks for horseshoes.

The invention consists in the details of construction and combination of parts which will first be described in connection with the accompanying drawings, and then particularly pointed out in the claims.

In the drawings, Figure 1 is a perspective view of a device embodying my invention. Fig. 2 is a side elevation of the same with a horseshoe about to be operated upon. Fig. 3 is a similar view showing the calks bent and the lever down. Fig. 4 is a perspective view of a modified form of my invention, the lever being provided with a roller.

Referring to the drawings, A is a block or anvil, preferably of cast metal and hollow, being provided with a projecting lip a, by which it may be secured to a suitable support by bolts, screws, clamps, or similar means. The said block is also provided with a transverse groove, slot, or opening a', arranged to receive the heel ends of a horseshoe, the said groove being reduced in width or depth, as desired, by inserting various sizes of strips a^2 of metal either against the side or on the bottom. To the block is pivoted in any suitable manner a yoke device B, provided with a handle b in the form of a lever of gas-pipe, which is bolted to the yoke in any suitable manner, preferably as shown in Fig. 4, wherein the yoke is illustrated as made in two pieces, each flanged as at b', a pair of bolts passing through the flanges and gas-pipe lever b, the flanges being concaved to hold the pipe tightly. The two arms b^2 of the yoke are each provided with a series of holes b^3, into any one of which may be inserted a pivot pin C, the pins being insertible in holes in the block A, one pin at each side. In this way the yoke may be adjusted up or down on the block.

The operation of the device thus far described is as follows: The horseshoe to be bent is placed with its heel-calk end projecting downward into the groove a' in the block A, the size of the groove being so adjusted by means of the strips a^2 as to properly receive the heel-calks without too much play. By drawing forward the lever b the yoke device is brought against the horseshoe and bends the same downward, thereby turning the calks, as will be plain from Fig. 3, it being understood that the horseshoe is preferably bent while at a red heat, though by applying more power to the lever b the shoe may, when desired, be bent cold. In order to reduce the power necessary to adjust the yoke B, I preferably provide the same with a roller b^4, journaled in the yoke arms b^2 and arranged to contact with and move over the horseshoe. Owing to the front slope of the block A, as shown at a^3 in Fig. 3, the horseshoe-calks may be turned at a right angle to the shoe or pointing forward as desired.

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

1. In a horse-shoe calk-bending device, the combination with a block or anvil provided with a transversely disposed groove slot or opening a' in its upper face adapted to receive the heel ends of a horse-shoe blank, and having pin-holes for seats in the sides of the block or anvil, of a pair of yoke-arms provided with sets of pin-holes therein adapted to be aligned with the pin-holes or seats in the sides of the block or anvil, removable pins insertible through any desired set of holes in the yoke-arms into the holes in the sides of the block or anvil, and a lever secured to the yoke-arms for operating them in bending the calks, substantially as specified.

2. In a horse-shoe calk-bending device, the combination with a block or anvil provided with a transversely disposed groove, slot or opening a' in its upper face adapted to receive the heel ends of a horse-shoe blank, and having pin-holes or seats in the vertical sides of the block or anvil, of a pair of yoke-arms provided with sets of pin-holes therein adapted

to be aligned with the pin-holes or seats in the sides of the block or anvil, removable pins insertible through any desired set of holes in the yoke-arms into the pin-holes or seats in the sides of the block or anvil, a lever secured to the yoke-arms for operating them in bending the calks, and a roller journaled in the yoke-arms and adapted to contact with and move over the horse-shoe blank when the lever is operated, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

MORGAN ROCHE.

Witnesses:
L. T. CHAPMAN,
M. J. FLYNN.