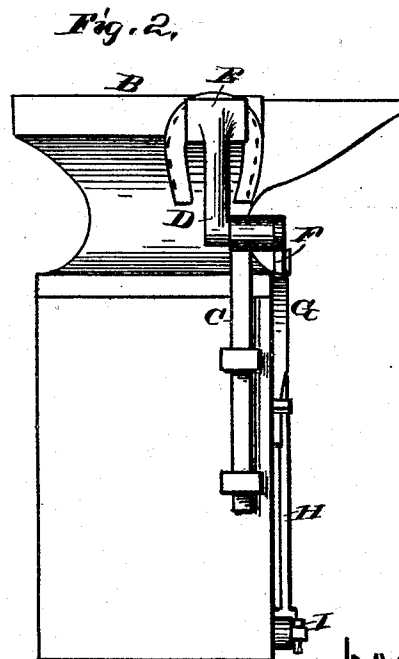
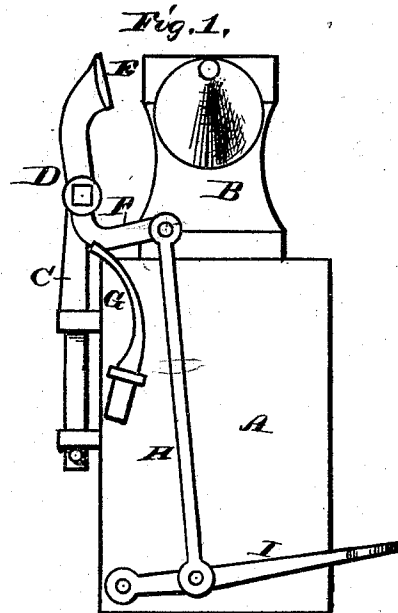


A. KIMBALL & J. TRAINOR.

HORSESHOE CALKING-VISE.

No. 172,271.

Patented Jan. 18, 1876.



WITNESSES:

Jas. F. Duhamel,
Thomas. Byrne.

INVENTORS:

A. Kimball.
J. Trainor.

PER

A. J. Abbot.
ATTORNEY.

UNITED STATES PATENT OFFICE.

ALPHEUS KIMBALL AND JOHN TRAINOR, OF ADRIAN, MICHIGAN.

IMPROVEMENT IN HORSESHOE-CALKING VISES.

Specification forming part of Letters Patent No. **172,271**, dated January 18, 1876; application filed December 21, 1875.

To all whom it may concern:

Be it known that we, ALPHEUS KIMBALL and JOHN TRAINOR, of Adrian, in the county of Lenawee and State of Michigan, have invented certain new and useful Improvements in Horseshoe-Clamps for Anvils, of which the following is a specification:

The object of this invention is to provide, as an attachment to an anvil, a clamp for holding a horseshoe against the anvil in the operation of shaping the shoe, but more particularly for the special operation of sharpening the calks of the shoe. To this end, therefore, this invention consists of the details described as follows:

In the drawing forming part of this specification, A is an anvil-block, upon which is mounted an anvil, B. This block and anvil may be of any desired shape, size, or quality. C is a standard, which is adapted to be secured either to an anvil or to its block, by being either bolted thereto permanently, or by any other suitable means of attachment less permanent, as by being shipped through eyes or staples, secured to either the block or anvil itself, as seen in the drawing. At the top of the standard C is formed a boss, in which is journaled a rocker-lever, D, provided with a jaw, E, and an arm, F, which arm rests in contact with a spring, G, secured to any suitable support below said arm. This spring is not necessary to the operation of this clamp, but is a convenient adjunct, the use of which is obvious. To the end of the arm F is joined, by a pin, a connecting-rod, H, whose other end is similarly united to a

foot-lever, I, pivoted at one end to any suitable support, such as the anvil-block, and whose other end forms a pedal.

The method of operating this device is as follows: The smith, holding a horseshoe in a pair of tongs, places it between the jaw of the clamp and the face of the anvil, so that a fair blow can be struck upon any desired part of the shoe, and while thus steadying the shoe with the tongs, he places his foot upon the pedal I, which, through the intervention of the connecting-rod H, closes the jaw of the clamp, thus securely holding the shoe against the face of the anvil. A fair blow can thus be struck upon the shoe, and the shape of the shoe be better preserved than if the shoe were held by the tongs alone, for, in the operation of sharpening the calks of shoes, and more particularly of old shoes, said shoes are very liable to be sprung out of shape.

Having thus fully described this invention, we claim—

In combination with any suitable anvil, a horseshoe-clamp consisting of a standard, C, rocker-lever D, arm F, connecting-rod H, and pedal I, all constructed and operating substantially in the manner hereinbefore described, for the purposes set forth.

In testimony that we claim the foregoing as our own, we affix our signatures in presence of two witnesses.

ALPHEUS KIMBALL.
JOHN TRAINOR.

Witnesses:

M. L. FINCH,
R. B. ROBBINS.