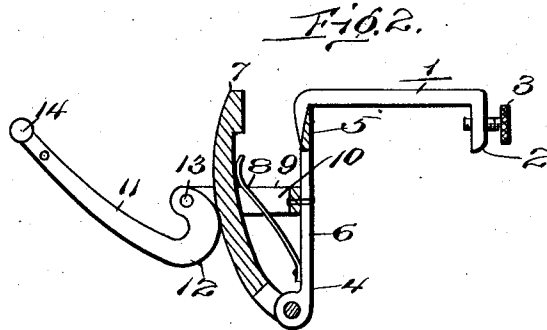
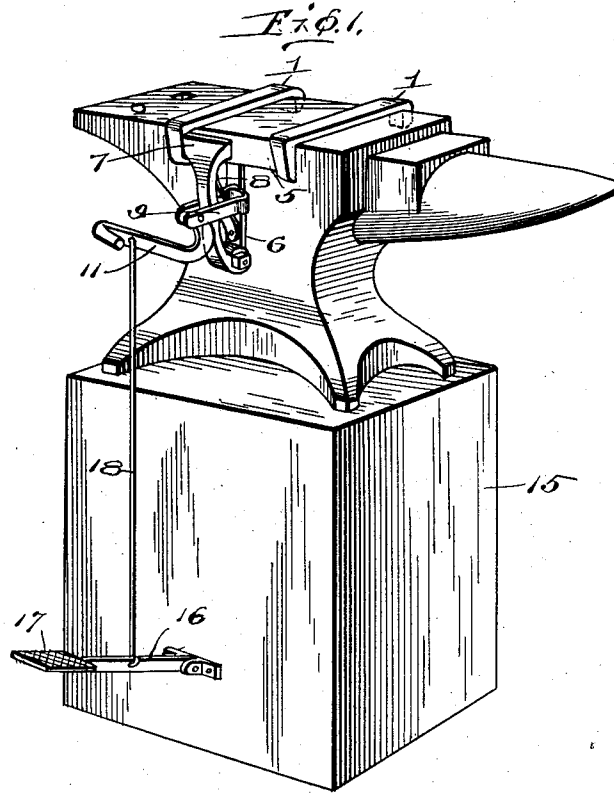


M. M. HABERLEIN.
BLACKSMITH'S VISE.
APPLICATION FILED MAY 2, 1911.

1,009,407.

Patented Nov. 21, 1911.



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MARTIN M. HABERLEIN, OF GRACE CITY, NORTH DAKOTA.

BLACKSMITH'S VISE.

1,009,407.

Specification of Letters Patent. Patented Nov. 21, 1911.

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To all whom it may concern:

Be it known that I, MARTIN M. HABERLEIN, a citizen of the United States, residing at Grace City, in the county of Foster and State of North Dakota, have invented certain new and useful Improvements in Blacksmiths' Vises, of which the following is a specification.

My invention has relation to new and useful improvements in a foot or hand vise to aid in drawing or pounding out toe and heel calks of horse shoes.

The device is to be attached to the anvil by means of clamps but it may be readily removed when it is not desired to use the same.

With the foregoing and other objects in view my invention consists of the novel construction, combination and arrangement of parts as are described in this specification, illustrated in the accompanying drawings forming a part thereof and particularly pointed out in the appended claim.

Referring to the drawings: Figure 1 is a perspective view of an anvil to which my vise has been applied. Fig. 2 is a vertical, sectional view of the clamp shown in Fig. 1.

Referring more particularly to the drawings, in which like numerals designate like parts throughout, my invention is described as follows:

The device is held in position to the anvil by means of the hooks or clamps 1, each of which are provided with a downwardly extending portion 2 through which portion extends a thumb screw 3 which may be employed to tighten the hooks or clamps 1 to the anvil if necessary. The vise 4 is held to the hooks 1 by means of a horizontal crosspiece 5 and a vertically extending member 6. A jaw 7 is pivotally held to the lower end of the vertically extending member 6. Said jaw being held in outward or open position by means of a flat metallic spring 8, one end of which is secured to the outer face of the member 6 while the other end is free to play upon the inner face of the jaw 7. The jaw 7 is interposed between the parallel horizontal extensions 9 of the U-shaped guide 10 which is secured to the outer face of the vertically extending member 6 by means of a rivet or any other suitable means. It is obvious that the guide 10 prevents sidewise movement of the jaw 7. Interposed between the outer ends of the horizontal extensions 9 and held therebe-

tween pivotally is an arm 11 which is provided with a hook-shaped inner end 12, the curved or hooked portion of the arm 11 contacting the outer face of the jaw 7, producing a cam action so that when the arm 11 is drawn downward the jaw 7 will be forced inward into closed position against the action of the flat metallic spring 8. The arm 11 is pivoted between the outer ends of the horizontal extensions 9 by means of a pin or bolt 13 or any other suitable means adapted for the purpose. A handle 14 is provided upon the outer end of the arm 11 and integral therewith so that said arm may be forced downward by means of the hand, if desired.

Pivoted to that face of the block, 15 which corresponds to the side of the anvil to which the vise 4 is secured, is a lever 16 provided with a foot pedal 17. A connecting rod 18 is interposed between the arm 11 and the lever and is secured to each so that the arm 11 may be drawn down by pressing the foot upon the pedal 17 of the lever 16 if desired.

The operation of my vise is as follows: When it is desired to pound out the toe or heel calks of a horse shoe the shoe is placed in the vise so that the calk to be pounded will rest upon the face of the anvil and may be shaped as desired.

It will be obvious that the use of this vise is far superior to holding the shoe in position by means of a pair of tongs as it will clamp the shoe firmly upon the anvil while it is being pounded, in a rigid manner.

When it is desired the device may be readily removed from the anvil so that said anvil may be used for forging other parts of the shoe or other metals. This may be done simply by loosening the thumb screws 3 and slipping the clamps or hooks from that position upon the anvil as shown in Fig. 1.

Although I have specifically described the novel features of construction, combination and arrangement of the parts of my invention, yet I do not confine myself to such specific construction, combination and arrangement of parts but reserve and may exercise the right to make such changes therein as do not depart from the spirit of my invention or the scope of the appended claim.

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

In a blacksmith's vise comprising hooks to

secure the same to an anvil, a crosspiece interposed between corresponding ends of the hooks, a vertical member secured to said crosspiece adjacent the center thereof and
5 extending downward therefrom, a jaw pivotally held to the lower end of the vertical member, means to guide said jaw comprising a U-shaped member secured to the outer face of the vertical member, resilient means to
10 press the jaw outward normally in open or

unclamped position, and means comprising a curved arm to cause the jaw to assume a closed or clamped position against the action of said resilient means.

In testimony whereof I affix my signature 15
in presence of two witnesses.

MARTIN M. HABERLEIN.

Witnesses:

H. O. HANSON,
OTTO TOPP.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."
