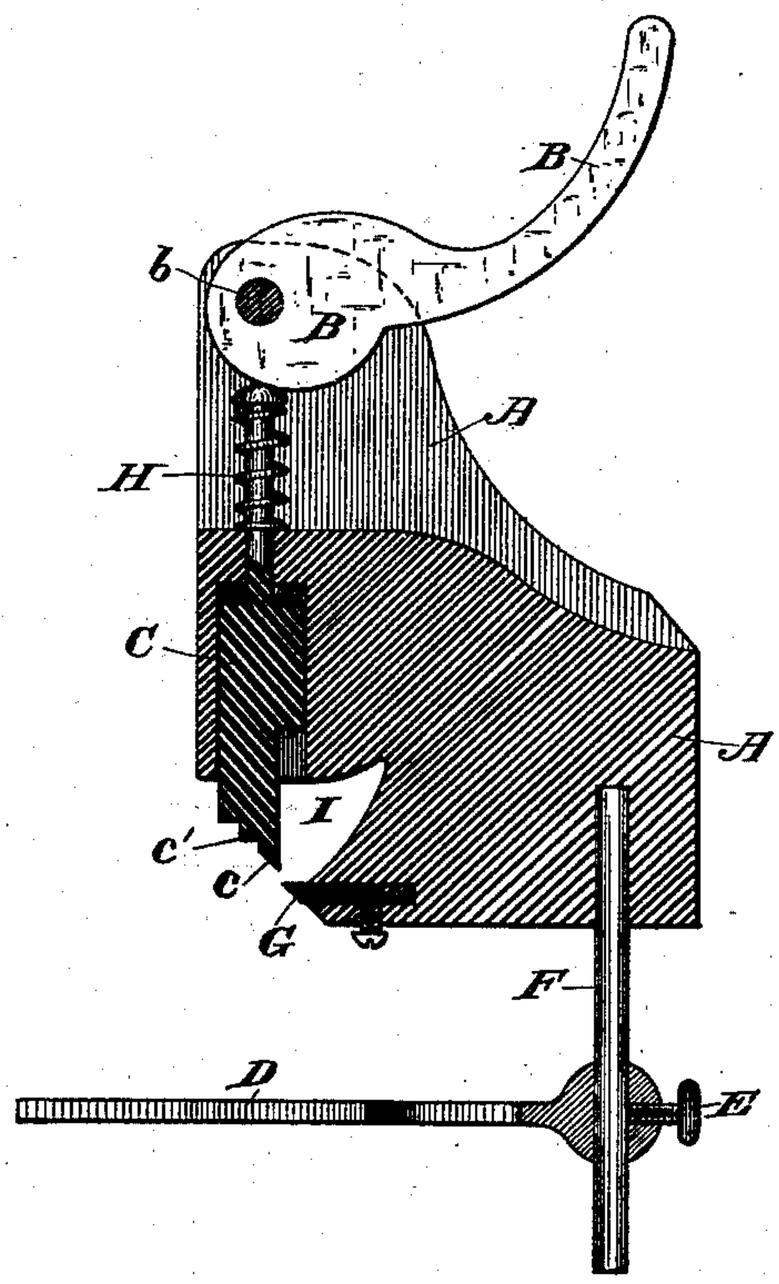
(No Model.)

A. G. HUMPHREY.

Horseshoeing Machine.

No. 238,906. **Patented March 15, 1881.**



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UNITED STATES PATENT OFFICE.

ALBERT G. HUMPHREY, OF NEOGA, ILLINOIS.

HORSESHOEING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 238,906, dated March 15, 1881.

Application filed October 14, 1880. (No model.)

To all whom it may concern:

Be it known that I, ALBERT G. HUMPHREY, a citizen of the United States, residing at Neoga, in the county of Cumberland and State of Illinois, have invented new and useful Improvements in Horseshoeing-Machines, of which the following is a specification.

The subject of my invention is a machine for cutting off and clinching nails after they are driven in the usual manner in shoeing horses.

The machine consists, essentially, of a stationary horizontal knife and a sliding vertical bit and clincher, with devices for holding them in required position on the upper surface of the hoof, and a cam-lever, by which the sliding knife and clincher are driven to cut off the nail by acting shearwise with the stationary knife and at the same moment to effectually clinch the nail.

The object of the invention is to save labor and time in shoeing horses and to avoid a fruitful source of disease in the present mode of clinching and cutting off the nails.

In order that the invention may be fully understood, I will proceed to describe it with reference to the accompanying drawing, which represents a vertical section of the machine.

A is a solid block of metal, which is made of substantially the shape shown, to adapt it for application to the upper or outer surface of the hoof and to form a stock for the working parts, as hereinafter described.

B is a cam-lever, fulcrumed at *b* in the upper part of the stock A.

C is a bit sliding vertically within the stock A, in position to be forcibly pressed down by the cam-lever B.

H is a spiral spring seated on a suitable collar or shoulder in the stock A, and bearing upward against a head or collar at the upper end of the shank or bit C, for the purpose of lifting the said bit when released by the cam-lever.

D is a rest provided with a set-screw, E, and adapted to slide on a vertical stud, F, so that it may be fixed at any required height by means of the set-screw E.

G is a stationary knife fixed in the face of the stock A near its base, as represented, so that the sliding bit C may act shearwise with the said knife. A cavity, I, is formed in the face of the stock A near its base, within the point at which the knives C and G meet, to afford room for the projecting points of the nails and permit the escape of the cuttings. The working-face of the bit C is formed, in addition to the cutting-edge *c*, with a succession of shoulders, *c'*, adapted for catching the projecting end of the cut nail and bending and clinching it closely down against the surface of the hoof, as required.

The operation of the machine is as follows: The nails having been driven in the usual manner, the rest D is set to the required height to suit the hoof, and the machine is then applied with the edge of the hoof extending within the angle between the said rest and the base of the stock A, and the head of the nail bearing on the rest, the rest having been so adjusted as to bring the sliding bit C vertically over the projecting nail which is to be cut off and clinched. The lever B is now brought down, which urges the sliding bit C downward with great force, bending over the nail and bringing its projecting end over the cutting-knife C, so that the point is cut off, leaving the required end for clinching. The continued downward movement of the bit C bends and presses the projecting end of the nail closely over the surface of the hoof and effectually clinches the same by the resistance afforded by the rest D under the head of the nail. I thus dispense entirely with the use of the hammer, of the customary clincher for clinching nails, and of the rasp for cutting off the same, and thereby relieve the hoof from violence and injury which are caused by the concussion of the hammer under the usual mode of clinching.

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

1. The horseshoeing-machine consisting of a block, A, horizontal knife G, sliding vertical bit C, and cam-lever B, as set forth.

2. The combination of block A, having horizontal knife G and stud F, the foot-rest D, cam-lever B, and vertical sliding bit C, as set forth.

3. The bit C, having knife *c* and shoulders *c'*, in combination with block A, cam-lever B, and knife G, as set forth.

ALBERT G. HUMPHREY.

Witnesses:
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