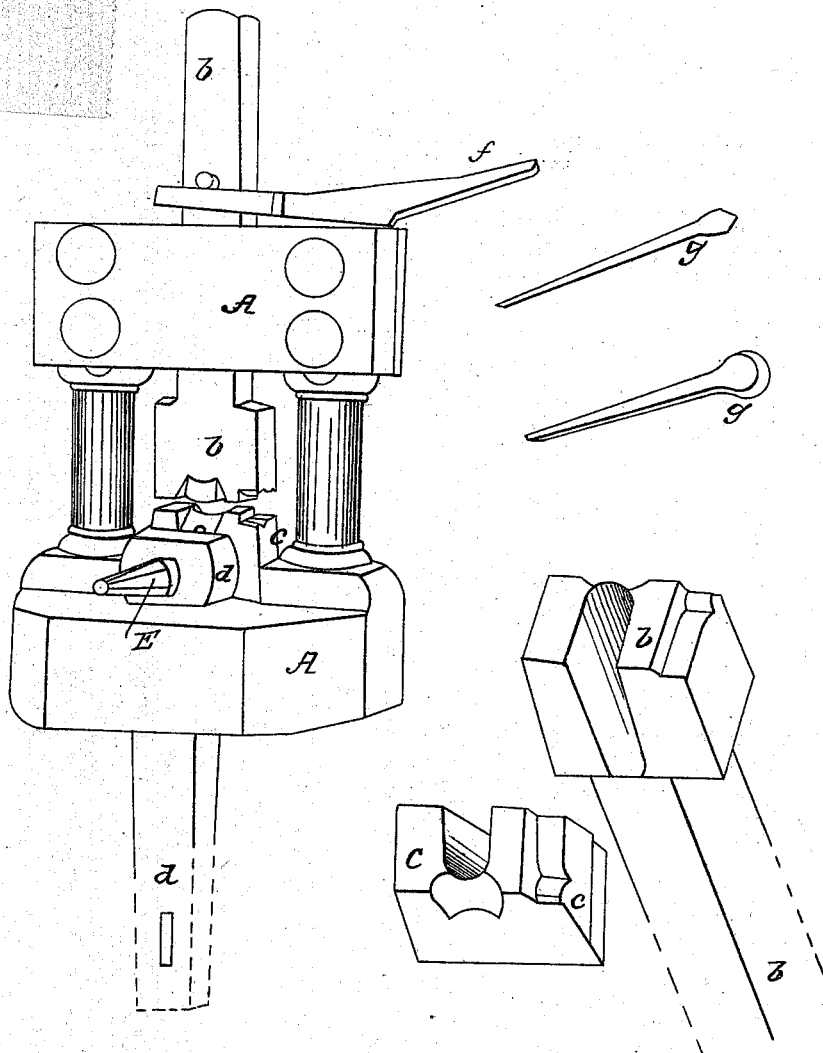


N. DEXTER.
Horseshoe-Nail Machine.

No. 107,670.

Patented Sept. 27, 1870.



witnesses
George Buchanan
John Aiken

Inventor
Norman Dexter

UNITED STATES PATENT OFFICE.

NORMAN DEXTER, OF BOWER HILL, PENNSYLVANIA.

IMPROVEMENT IN MACHINES FOR SHAPING THE HEADS OF HORSESHOE-NAILS.

Specification forming part of Letters Patent No. **107,670**, dated September 27, 1870.

To all whom it may concern:

Be it known that I, NORMAN DEXTER, of Bower Hill, in the county of Washington, in the State of Pennsylvania, have invented a new and Improved Machine for Shaping Heads of Horseshoe-Nails; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawing, and to the letters of reference marked thereon.

The nature of my invention consists in providing upper and lower dies, *b* and *c*, between which the heads of horseshoe-nails are first shaped edgewise by a single blow, and then, by turning the nail on its side and placing its head between the central parts of the dies, by another blow it is separated from the bar, making the center of the crown protuberant.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

I construct a strong frame, *A A*, of wrought or cast iron, to be made fast on any anvil or bench by the clamp *d d*. The lower die, *c*, between dovetail parts of the frame, is adjusted and kept in its place by wedges at its sides and the adjustable screw *e* at its front, the upper end of clamp *d* being used as a nut.

The blade or shaft of the nail being made in the usual manner, we will now proceed to form the head by means of the machine. The

upper die, *b*, is raised by placing the smith's hammer on the out end of lever *f*. The part of iron of which the head of the nail is to be made is then placed on edge between the right-hand parts of the dies. The hammer is raised from the lever and brought down with a single blow on the top of the die. This gives the head a pyramidal shape edgewise. We again raise the die and place the iron on its flat side between the central part of the dies, and, by another blow, the nail is separated from the bar and the head completed, having the central part of its crown protuberant.

One great advantage in having the head of the nail this peculiar shape is, that the nail will be less apt to bend in driving than it would if its head were any other shape.

The dies, as seen separate from the frame, are full size. The nails *g g* are also about full size.

Claim.

I claim as my invention—

The improved device herein described, consisting, essentially, of the frame *A*, dies *b c*, and lever *f*, combined as and for the purpose set forth.

NORMAN DEXTER.

Witnesses:

GEORGE BUCHANAN,
JOHN AIKEN.