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CHARLES H. PERKINS'

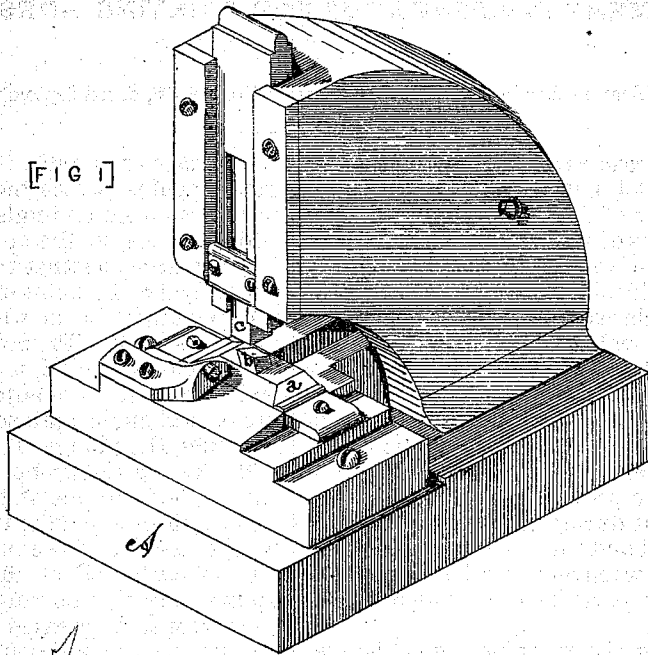
improved HORSE SHOE NAIL POINTER.

ASSIGNED to the AMERICAN HORSE NAIL COMPANY.

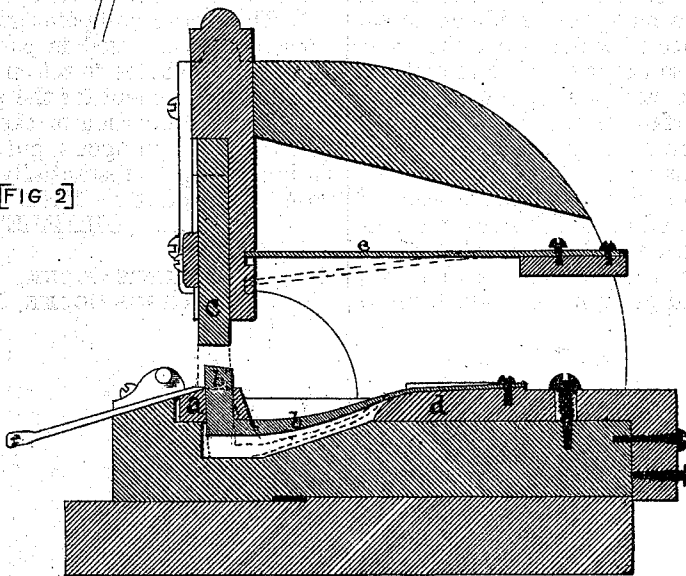
No. 119,402.

Patented Sep. 26, 1871.

[FIG 1]



[FIG 2]



WITNESSES.

Geo Lewis Cooke _ _ _

Geo Lewis Cooke Jr. _ _ _

INVENTOR.

Charles H. Perkins _ _ _

UNITED STATES PATENT OFFICE.

CHARLES H. PERKINS, OF PROVIDENCE, RHODE ISLAND, ASSIGNOR TO AMERICAN HORSE-NAIL COMPANY, OF SAME PLACE.

IMPROVEMENT IN APPARATUS FOR POINTING HORSESHOE-NAILS.

Specification forming part of Letters Patent No. 119,402, dated September 26, 1871.

To all whom it may concern:

Be it known that I, CHARLES H. PERKINS, of the city and county of Providence, in the State of Rhode Island, have invented certain Improvements in Horseshoe-Nail Pointers, of which the following is a specification:

The invention relates to the combination of a stationary die, a movable nail-point guide, and a plunger in such manner as to effect, when the plunger descends, the scarfing of a portion of one surface of the nail at the point for the purpose of giving direction in the hoof in driving; the object being to make the extent of the scarfing uniform in every nail, and to prevent the clipping of any portion of the point during the process.

Figure 1 is a front and side view of the machine. Fig. 2 is a vertical transverse section of the machine, showing the parts in the plane of bisection.

A is the frame of the machine. *a* is the die, capable of being adjusted as desired through an opening in which the nail-point guide operates, and the upper surface of which, from the front line of said opening to the front edge, is beveled as desired. *b* is the nail-point guide, which is raised above the surface of the die by its elasticity; and *c* is the plunger, operated in any convenient way. The surfaces of the plunger and guide, which come in contact on the descent of the plunger, are formed at such angles, respectively, as to have them and the unbeveled upper surface of the die in the same plane when the plunger descends and presses the guide down to

the surface of the die. The front surface of the guide, against which the nail-point rests, is also formed at such an angle as to cause the guide, which moves on the arc of a circle, continually to press firmly against the die in its descent, and yet to leave the point of the nail at the edge of the opening in the die when the plunger has completed its work. The nail-point guide is attached to the guide-block *d*, movable, by means of the end screws, so as to adjust as desired the pressure of said guide against the die. *e* is the spring by which the plunger is elevated.

By resting the proper surface of the nail *f* on the beveled surface of the die *a*, with the point against the nail-point guide *b*, it will be seen that, on the descent of the plunger, the opposite surface of such nail at the point will have been scarfed, and that no portion of the nail will have been clipped or pressed between the opening of the die and the nail-point guide.

I claim as my invention—

1. The spring nail-point guide *b* and the die *a*, constructed and used in combination with any available appliance to act on the guide and nail, substantially as and for the purpose set forth.

2. The combination of the die *a*, spring nail-point guide *b*, plunger *c*, guide-block *d*, and elevating-spring *e*, substantially as and for the purpose hereinbefore set forth.

CHARLES H. PERKINS.

Witnesses:

GEO. LEWIS COOKE,
GEO. LEWIS COOKE, Jr.

(66)