

C. W. WOODFORD.

Improvement in Horse Nail Machines.

No. 124,411.

Patented March 5, 1872.

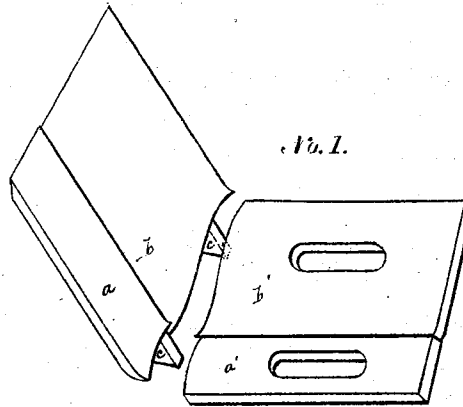
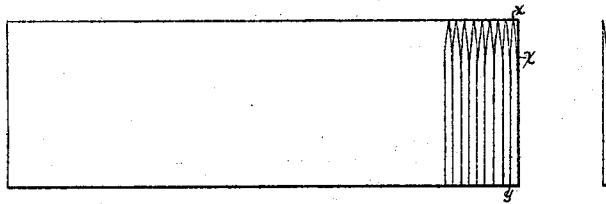


Fig. 2.



Witnesses.

L. J. Hayes
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Inventor.

C. W. Woodford by
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UNITED STATES PATENT OFFICE.

CHARLES W. WOODFORD, OF MONTREAL, CANADA.

IMPROVEMENT IN HORSESHOE-NAIL MACHINES.

Specification forming part of Letters Patent No. 124,411, dated March 5, 1872.

To all whom it may concern:

Be it known that I, CHARLES WELLINGTON WOODFORD, of Montreal, in the district of Montreal and Province of Quebec, Canada, have invented new and Improved Machinery for Cutting Horseshoe-Nails; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing and to the letters of reference marked thereon.

This invention has for its object the production of mechanism especially adapted for cutting horseshoe-nails; and consists in the peculiar construction and arrangement of the cutters and bed-knives, by the joint operation of which the nail is severed from the plate, as will be fully described hereinafter.

In the drawing, Figure 1 represents a view of the cutters and bed-knives; and Fig. 2, a plan and end view of the plate from which the nails are cut.

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

a b represent the cutters, and *a' b'* the bed-knives. The cutters *a b* receive the proper motion to enable them to operate in connection with the bed-knives by means of any suitable mechanism. The outline of the cutter *a* and of the bed-knife *a'*, which corresponds with it, is adapted to cut the line *x x* upon the corner of a plate of metal, as indicated in Fig. 2. The outline of the cutter *b* and the bed-knife

b', which corresponds with it, is adapted to cut the line *x y*, as indicated also in Fig. 2.

The operation is as follows: The cutters having been given the proper movement in any suitable manner, a plate of metal is presented to them, its proper position being determined by the guides *c d*. The plate being first acted upon by the cutter *a* has its corner moved upon the line *x x*. Its position then being changed by any suitable mechanism, it is presented to the cutter *b*, which severs a portion upon the line *x y*, the severed portion forming a blank for a nail. The plate itself should be previously brought into proper form, as indicated by the end views, Fig. 2.

By means of this peculiar construction I am enabled to cut horseshoe-nails with their long tapering points from a plate of metal—a result impossible with the ordinary nail-cutting machinery.

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

The cutters *a b* and bed-knives *a' b'*, adapted by their joint operation to cut from a plate of metal horseshoe-nails with long tapering points, substantially as described.

Montreal, 24th day of November, A. D. 1870.

CHARLES WELLINGTON WOODFORD.

Witnesses:

CHARLES LEGGE,
CHARLES G. C. SIMPSON.