

(No Model.)

A. ANDERSEN.
HORSESHOE MACHINE.

No. 268,166.

Patented Nov. 28, 1882.

Fig. 1

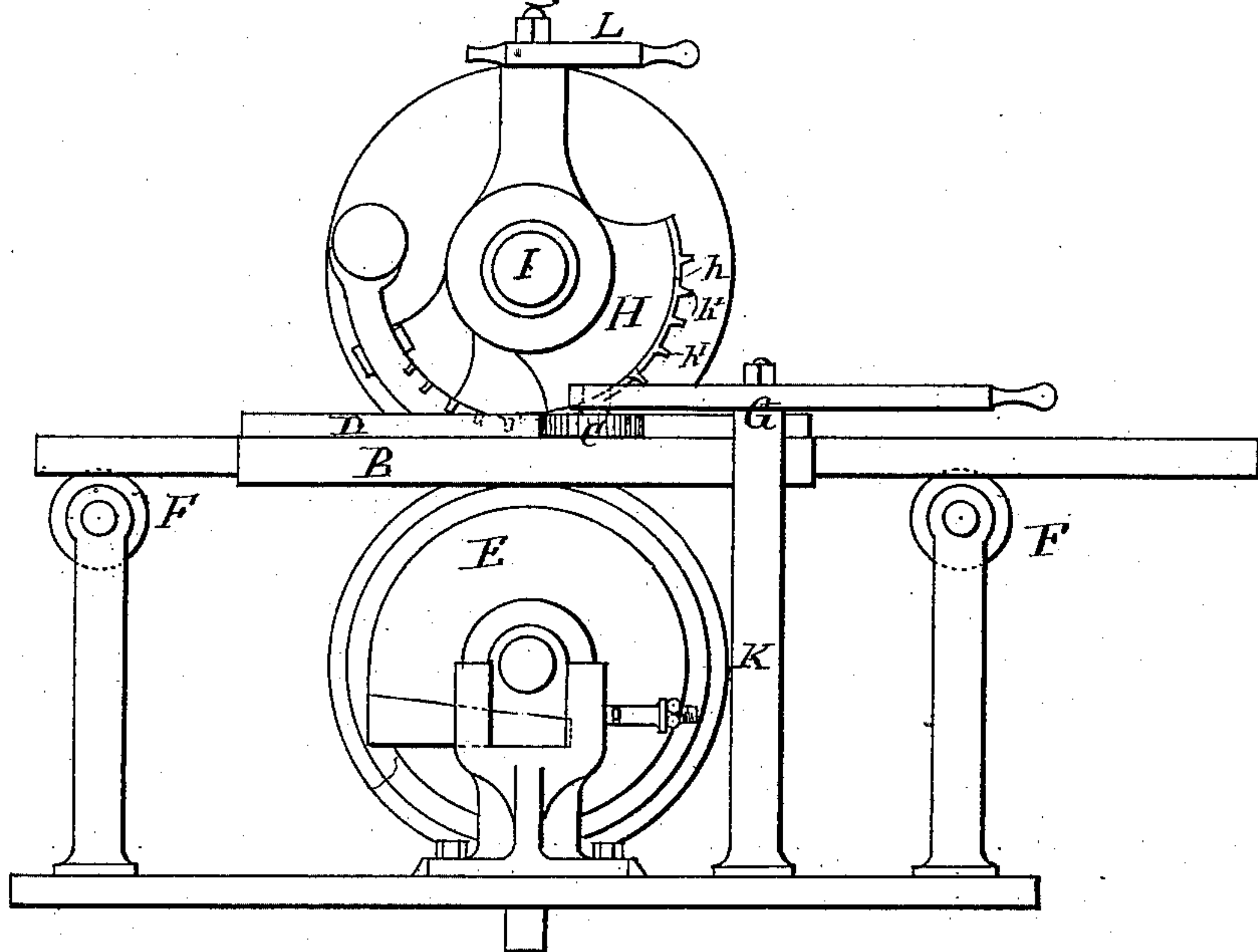
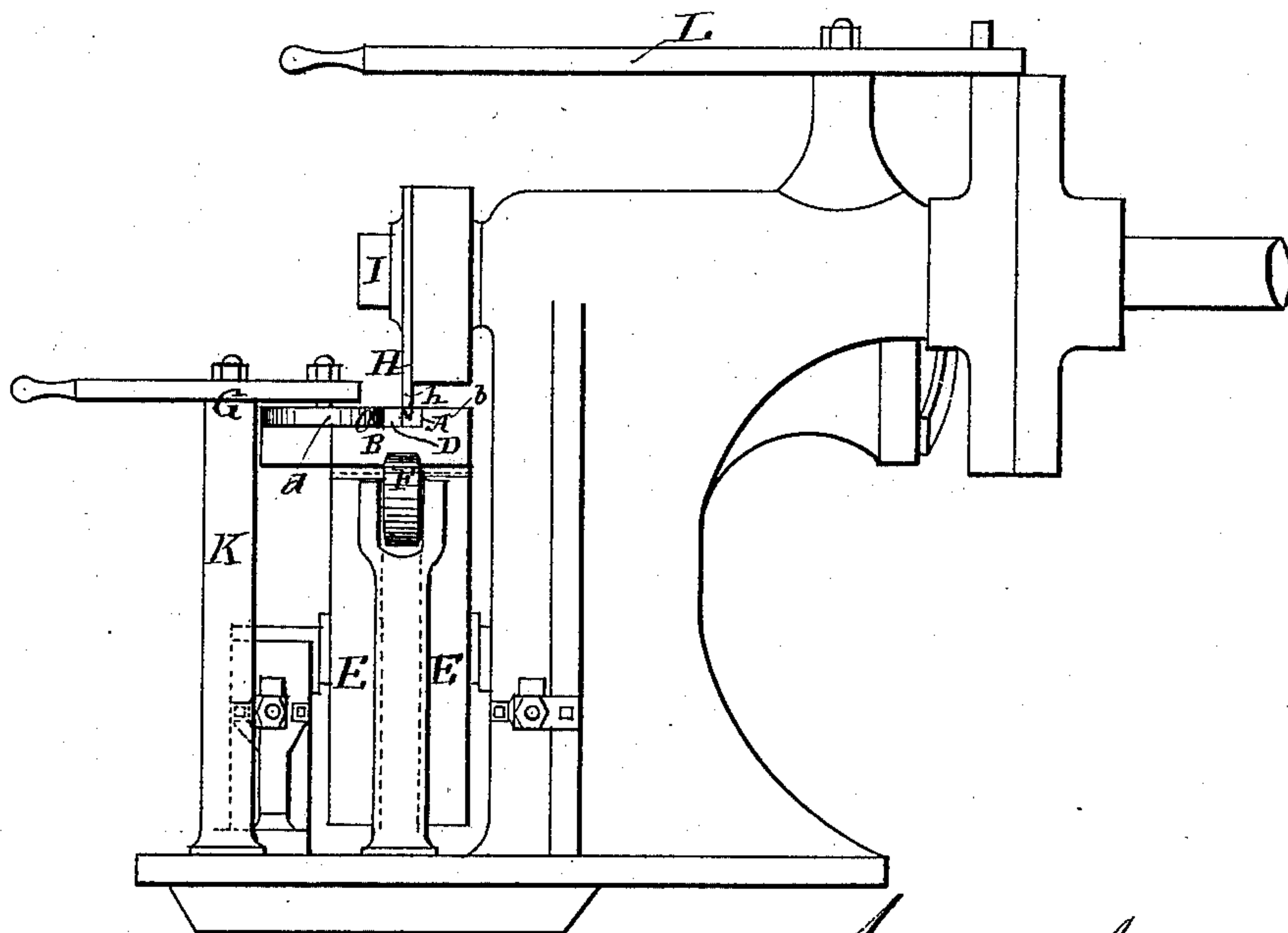


Fig. 2.



WITNESSES:

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HORSESHOE-MACHINE.

SPECIFICATION forming part of Letters Patent No. 268,166, dated November 28, 1882.

Application filed September 4, 1882. (No model.) Patented in Denmark February 14, 1882.

To all whom it may concern:

Be it known that I, ANDERS ANDERSEN, a citizen of Denmark, residing at Copenhagen, in the Kingdom of Denmark, have invented certain new and useful Improvements in Machines for Manufacturing Horseshoes; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention has relation to machines for grooving and punching blanks for horseshoes, and it is used in connection with machines for cutting, rolling, and shaping the blanks before and after punching and grooving them; and it consists in the improved construction, combination, and arrangement of parts thereof, as hereinafter more fully described and claimed.

In the accompanying drawings, Figure 1 is a side view of my improved machine for grooving and punching blanks for horseshoes, and Fig. 2 is an end view of the same.

Similar letters of reference indicate corresponding parts in both the figures.

The horseshoe-blank is represented by the letter A in position for being grooved and punched. It is held in place on the carriage B, between the raised side *b* of the same and the removable strip D, by means of the roller C. The carriage rolls on and is guided by a large guide-wheel, E, and two smaller rollers, F and F, and passes the blank A under the sector-shaped die H, which is keyed on and rotated by a shaft, I. The sector-shaped die H has a sharpened edge, *h*, which forms the groove in the blank, and upon the edge of which are the punches *h'*, which punch the nail-holes. The roller C is journaled on the

one end of lever G, which has its fulcrum and is pivoted on an upright, K, and by moving the free end of lever G forward or backward the roller is made to press the blank between or release it from the cleat D and the edge of the carriage B. It will be seen that after the horseshoe-blank has been cut off to its desired length, and has passed through a rolling-machine to bring it down to its proper dimensions, it is placed on carriage B, between its side and the strip or bar D. By now pulling on the free end of lever G roller C will press upon the bar D and clamp the blank in position. Next axle I is thrown into gear by means of lever L, when the sector-shaped die H will turn with its edge against the blank and cut the groove and the nail-holes by its sharp edge *h* and punches *h'*, while the carriage rolls forward on the rollers E and F F. After passing through the grooving and punching machine the blank passes through appropriate machines for bending and shaping it to its required form.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

The combination, in a machine for grooving and punching nail-holes in blanks for horseshoes, of the carriage B, supporting and guiding rollers E and F F, movable clamping-bar D, lever G, having roller C at its inner end, sector-shaped die H, having the cutting-edge *h* and punches *h'*, and means for operating said die, all constructed and combined to operate substantially in the manner and for the purpose herein shown and set forth.

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

ANDERS ANDERSEN.

Witnesses:

FREDERIK WOLFF,
R. F. JERGGREEN.