L. PRENOT & G. MARCHAL.

Machine for Turning Wooden Heels.

No. 208,989. Patented Oct. 15, 1878.

Fig. 1.

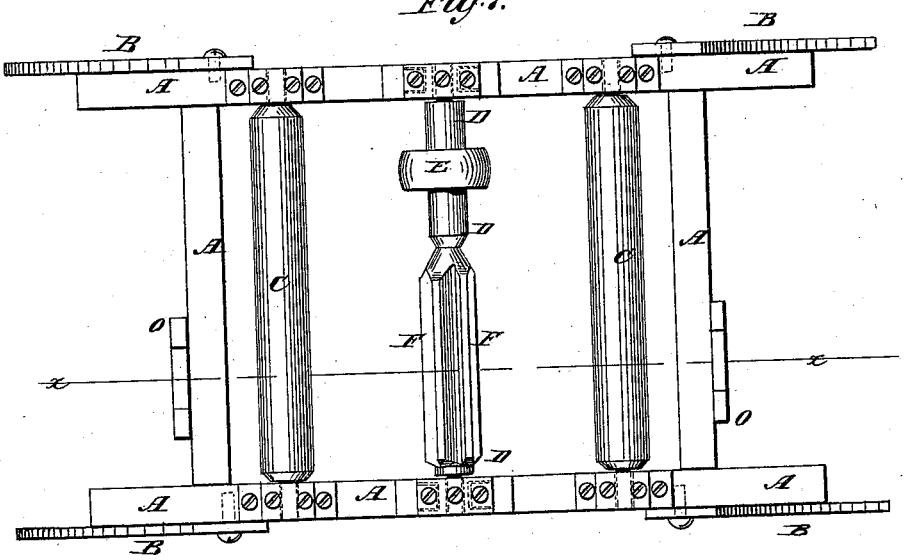

Fig. 2.

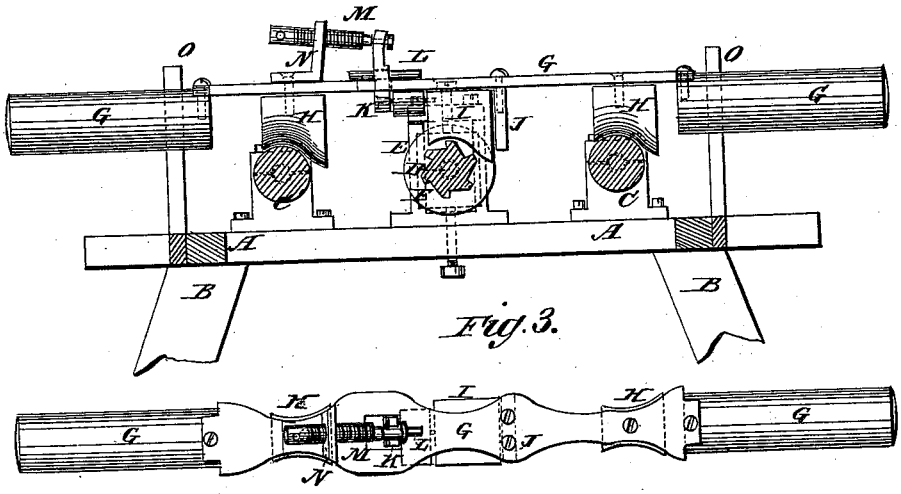

Fig. 3.

WITNESSES:

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LOUIS PRENOT AND GEORGE MARCHAL, OF NEW YORK, N. Y.

IMPROVEMENT IN MACHINES FOR TURNING WOODEN HEELS.

Specification forming part of Letters Patent No. **208,989**, dated October 15, 1878; application filed September 28, 1878.

To all whom it may concern:

Be it known that we, LOUIS PRENOT and GEORGE MARCHAL, of the city, county and State of New York, have invented a new and useful Improvement in Machines for Forming Wooden Heels for Boots and Shoes, of which the following is a specification:

Figure 1 is a top view of our improved machine. Fig. 2 is a vertical section of the same, taken through the line *x x*, Fig. 1. Fig. 3 is a detail top view of the gage and blank holder.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved machine for forming wooden heels for boots and shoes, which shall be so constructed as to form the heels rapidly and accurately, and shall be simple in construction and convenient in use.

The invention consists in the combination of the two rollers, the intermediate shaft provided with the pulley, and the cutters, and the holder provided with the two gages or patterns, and the clamp for holding the blank, with each other and with the frame and the slotted guide-standards, as hereinafter fully described.

A represents a rectangular frame, which is supported upon legs B, of such a length that the operating parts of the machine may be at a convenient height. To the end parts of the side bars of the frame A are attached bearings, in which revolve the journals of the two rollers C. The rollers C are made of such a size as to fit into the concavity of the heel to be formed. To the side bars of the frame A, midway between the bearings of the rollers C, are attached bearings, in which revolve the journals of the shaft D. The bearings of the shaft D are provided with set-screws, so that the said shaft may be adjusted higher or lower, as may be required. To the shaft D, near one end, is attached, or upon it is formed, a pulley, E, to receive the belt by which the said shaft is driven. Upon the other part of the shaft D are formed, or to it are attached, cutters F. G is the holder, upon the ends of which are formed, or to them are attached, cylindrical handles. To the holder G are attached, in such positions as to rest upon the rollers C, two gages or patterns, H, of the exact shape of the heels to be formed. To the middle part of the holder G, directly over the cutters F, is secured the block or blank I, from which a heel is to be formed. The blank I is held in place by clamps, one part, J, of which is stationary and is rigidly attached to the holder G. The other part, K, is movable, passes through a slot in the holder G, and is adjusted and held in place by a pin, L, passed through it above the said holder, and by a screw, M, swiveled to it, and which passes through a support, N, attached to the said holder G. The cylindrical end parts of the holder G are placed in guide-slots in standards O, attached to the end bars of frame A.

With this construction, when the blank I has been secured to the holder G, the said holder is placed in the guide-slots of the standards O, with one of the gages H resting upon one of the rollers C, and the said blank I resting upon the cutters F. The blank I is then pressed down upon the cutters F until the other gage H comes in contact with and rests squarely upon the other roller C, the holder G being turned until all parts of both gages H rest squarely upon both rollers C, when the blank I will be found to have the exact shape of the two gages. The finished heel is then removed and another blank is secured to the holder G.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

The combination of the two rollers C, the intermediate shaft D, provided with the pulley E and the cutters F, and the holder G, provided with the two gages or patterns H, and the clamp J K L M, for holding the blank, with each other and with the frame A B and the slotted guide-standards O, substantially as herein shown and described.

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Witnesses:
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