

N. C. STOW.

Shoe-Edge Burnishing Machines.

No. 141,399.

Patented July 29, 1873.

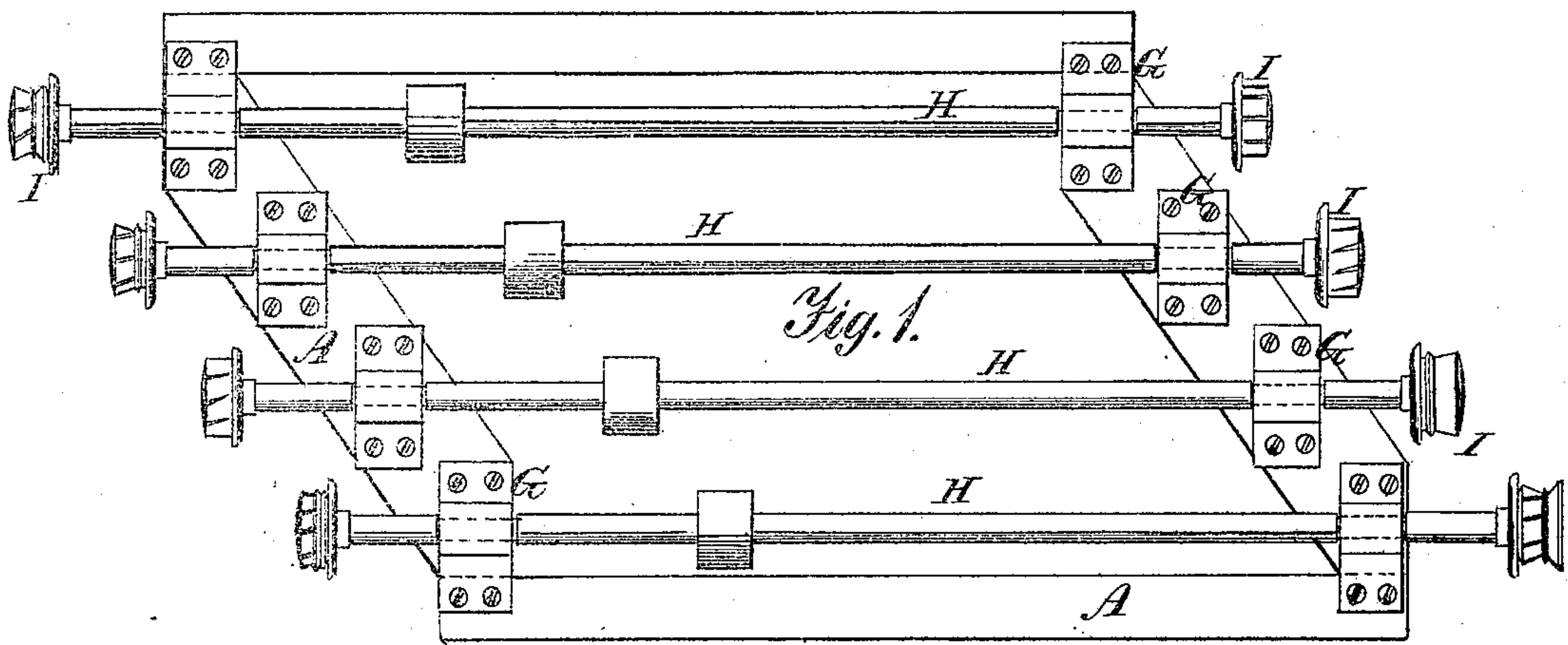
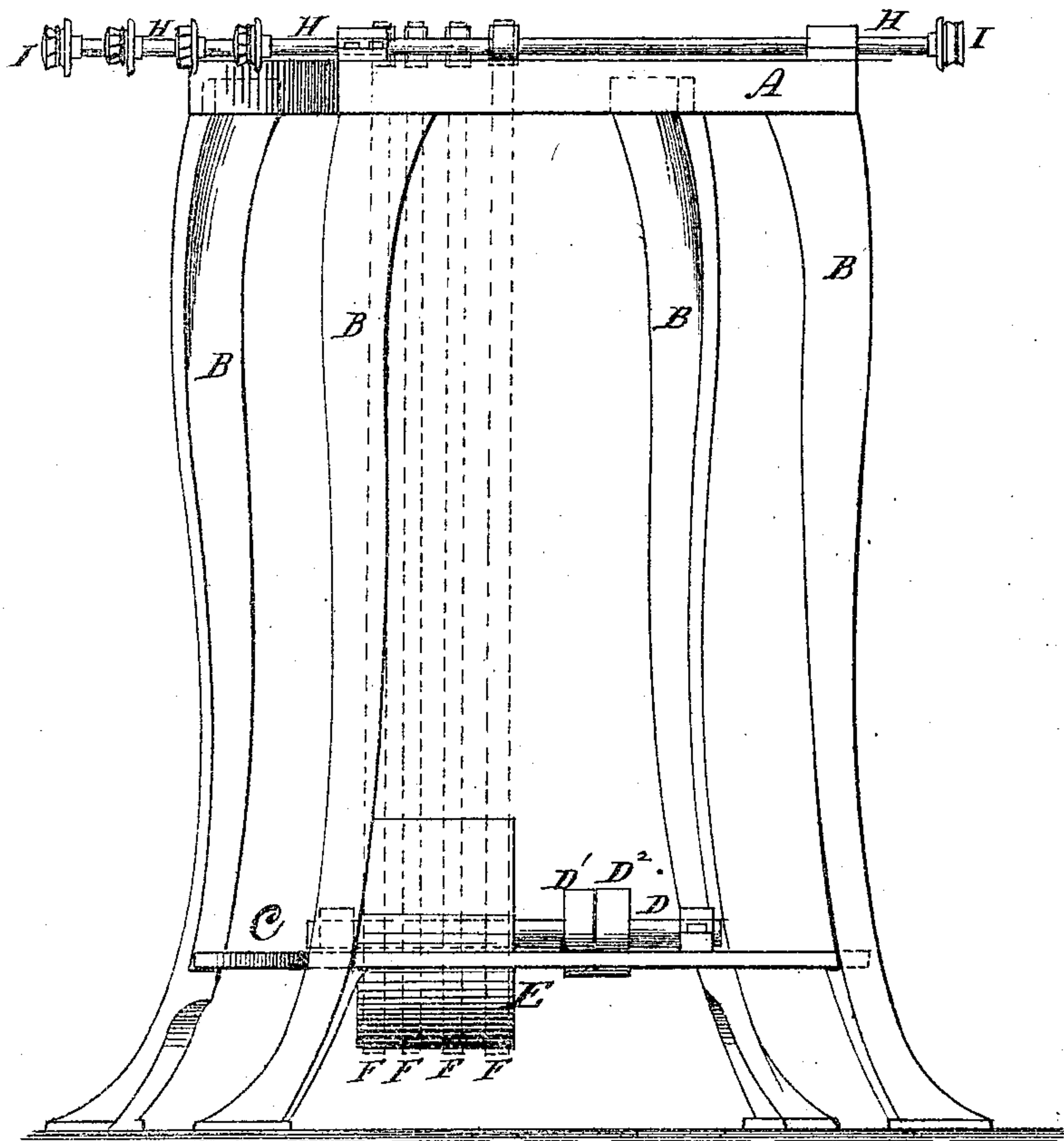


Fig. 2.



Witnesses.
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UNITED STATES PATENT OFFICE.

NATHAN C. STOW, OF ROCKLAND, MAINE.

IMPROVEMENT IN SHOE-EDGE-BURNISHING MACHINES.

Specification forming part of Letters Patent No. **141,399**, dated July 29, 1873; application filed April 7, 1873.

To all whom it may concern:

Be it known that I, NATHAN C. STOW, of Rockland, in the county of Knox and State of Maine, have invented certain new and useful Improvements in Machines for Burnishing the Edges of the Soles of Boots and Shoes, of which the following is a specification:

Figure 1 is a plan view of my improved machine, showing the upper surface of the frame, the boxes for holding the shafts in position, the shafts, and the burnishing-wheels; and Fig. 2 is a side elevation, showing the frame-work, the driving-shaft and pulleys, and a portion of the burnishing-wheels.

Corresponding letters denote corresponding parts in both of the figures.

This invention relates to a machine for burnishing the edges of the soles of boots and shoes; and it consists in providing such machines with a series of revolving disks or wheels of the proper form, and which are arranged in such a manner that two or more persons can be employed at the same machine at one and the same time, the construction being described in that portion of the specification which follows.

In constructing this type of machines I use a frame, A, of peculiar construction, its upper end being of the angular form shown in Fig. 1 in order that the boxes which support the shafts of the burnishing-wheels may be at about the same distance from said frame, and yet leave each wheel projecting beyond the one in rear of it, and thus make it possible to use either one of such wheels while any one of the others is being used, and while all of the rest are running. This angular frame A is supported upon legs or posts B, which are to be of such length as to give the required elevation to the burnishing-wheels, they being provided with lugs at the proper point for receiving and supporting a frame, C, in or upon which the boxes which receive the driving-shaft are placed. This frame C is similar in form to the one above it in order that it may be attached to all of the legs of the machine, and it has attached to its transverse bars journal-boxes for the reception of the shaft D, upon which the driving-pulleys D¹ and D² are placed, one of them being keyed or otherwise secured to said shaft, while the other is allowed to rotate freely thereon. A belt, from any prime mover or from another pulley, may be passed over

the pulley D¹, and thus give motion to all parts of the machine, there being a drum, E, upon the shaft D, which turns with it, thus imparting motion to the shafts of the burnishing-wheels by means of belts F, as shown in Fig. 2. In the boxes G, upon the angular frame A, there are placed a series of shafts, H, each one of which carries upon each of its ends a burnishing-wheel or disk, I, on the inside of which there is a thin disk of metal, which is designed to pass in between the sole and the upper of the boot or shoe, while the edge of the sole is being burnished, for the purpose of preventing any damage to the upper-leather of the shoe. These wheels or disks, outside of the flanges above referred to, may be of any form upon their peripheries that may be desired, so that they will burnish a sole whether its edges are perpendicular, rounded, or beveled. Upon each of the shafts H a pulley, K, is placed in the proper position to receive a belt, F, which gives motion to said shaft.

Some of the advantages due to this form of construction may be enumerated as follows: First, the machine is compact in form, occupying but little room, is cheaper in first cost than any machine with which I am acquainted that will do the same amount of work; secondly, two or more persons can work at the same machine at the same time, and can burnish shoes having different forms of edges to their soles; and, last, by the burnishing-wheels or disks, can at any time be removed for repairs, or for the purpose of replacing them without removing the shafts which carry them from their boxes.

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

The arrangement of the wheels or disks of a sole-burnishing machine, as herein described, as a consequence of which each one projects beyond the one in the rear of it for the purpose of enabling more than one person to work on each end of the machine at one and the same time, as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

NATHAN C. STOW.

Witnesses:

JOSEPH M. DEERING,
J. G. LOVEJOY.