C. J. ADDY.

Machines for Burnishing the Edges of Boots and Shoes.

No. 196,283. Patented Oct. 23, 1877.

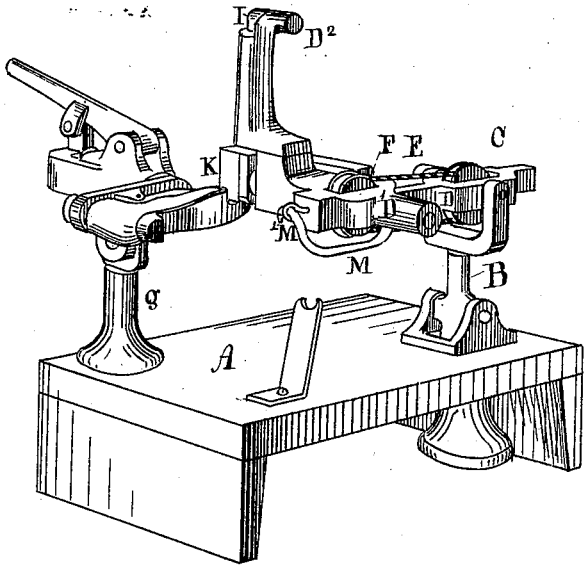

Fig. 1.

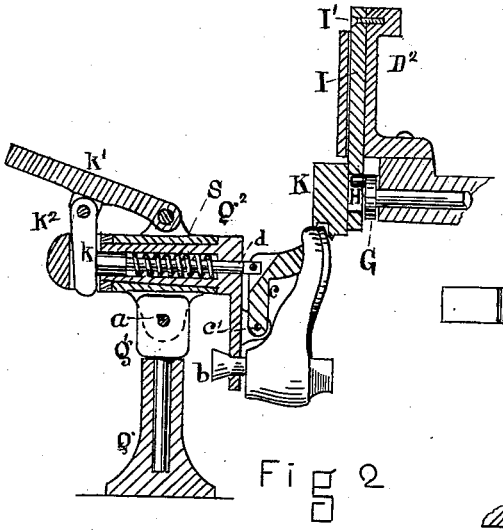

Fig 2

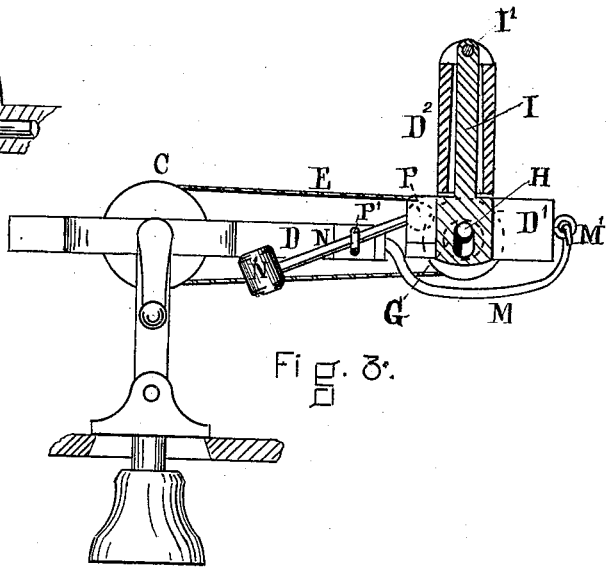

Fig. 3.

WITNESSES

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CHARLES J. ADDY, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN MACHINES FOR BURNISHING THE EDGES OF BOOTS AND SHOES.

Specification forming part of Letters Patent No. **196,283**, dated October 23, 1877; application filed March 22, 1877.

To all whom it may concern:

Be it known that I, CHARLES J. ADDY, of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and useful Improvement in Machines for Burnishing the Edges of Boots and Shoes, of which the following is a specification:

My invention relates to that class of edge-burnishing machines in which the burnishing mechanism is driven by power and held in a movable frame, which is guided and applied to the edge of the boot or shoe by hand, the boot or shoe being held on a jack.

The invention consists in combining with said movable frame a reciprocating burnishing-iron; also, in combining with the said frame, and near the burnishing-iron, a loosely-connected weighted lever, the object of the said lever being to prevent the chattering of the burnishing-iron, which would greatly interfere with the smoothing process, and also cause a disagreeable feeling in the hand of the operator.

The invention also consists in an improvement in the jacking device.

Referring to the drawings, Figure 1 is a perspective view of my invention. Fig. 2 is a vertical section through the jack. Fig. 3 is a vertical section through the device for operating the burnishing-iron, and an elevation of the movable frame which holds the burnishing device.

I represent the table or base of my machine by A, Fig. 1. B is a swinging weighted upright, hung to the table, as shown, and made to hold a driving-pulley, C, and to form a support for one end of the movable frame D D^1, which is pivoted to the upright on the axis of the pulley C, so that the belt E from the pulley C to the pulley F may be operative for all positions of the movable frame D D^1. This frame D D^1 is so constructed and connected that it is free to be moved by the hand of the operator into any desired position. (See Fig. 1.)

The pulley F drives a crank-disk, G, Figs. 2 and 3, the crank-pin H of which, acting in a vertical slot made in the lower end of the link I, causes the same to vibrate when the disk G is made to revolve, the link I being pivoted at I′ to the upper part of the standard and handle D^2, which forms a part of the movable frame D D^1.

The lower end of the vibrating link I has an edge-iron, K, which may have one or more working-faces, for convenience in burnishing different parts of the boot or shoe.

The forward part D^1 of the movable frame D D^1 is hung to the hook M M′, (see Fig. 3,) so that it can be turned by the handle D^2 to any desired position. Thus the operator may hold the burnishing-iron so as to work upon any part of the edge of the boot or shoe.

To prevent the part D^1 of the movable frame from receiving a tremulous or chattering motion from the rapid vibrations of the burnishing-iron K, I affix the weighted lever N N′ by a ball-and-socket joint, P, Fig. 3. This lever passes through an eye-piece, P′, in the part D of the frame D D^1, and by its inertia prevents the tremulous action that would otherwise ensue. This device adds greatly to the utility of the machine, as it prevents the chattering which would spoil the edge of the sole, and also almost paralyze the hand of the operator.

The jack for holding the shoe consists of the standard Q, Figs. 1 and 2, the swivel Q^1, and the head Q^2, which has a motion on the pin *a*, Fig. 2.

The ankle part of the shoe is held by the pin *b*, Fig. 2, which enters the last in the usual manner. The toe part is held by the support *c*, which is pivoted at *c′* and operated by the bar or rod *d* and spring S. The bar or rod *d* is pushed forward by the wedge *k*. The wedge *k* is operated by the lever-handle k^1, to which it is connected by the pin k^2.

Having now described the construction and operation of my invention, what I desire to secure by Letters Patent is as follows:

1. The combination of the iron K, movable frame B, the part D^1, the handle D^2, and the vibrating link I, all operating together substantially as described, and for the purpose set forth.

2. The combination of vibrating iron K and the part D^1 with the weighted lever N N′, said lever being connected to the part D^1; and arranged as described, for the purpose of preventing a tremulous motion, all arranged substantially as described, and for the purpose set forth.

3. In the holding-jack, the combination of the support Q and the bar or rod *d* with the wedge *k* and lever k^1, all operating substantially as described, and for the purpose set forth.

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Witnesses:
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