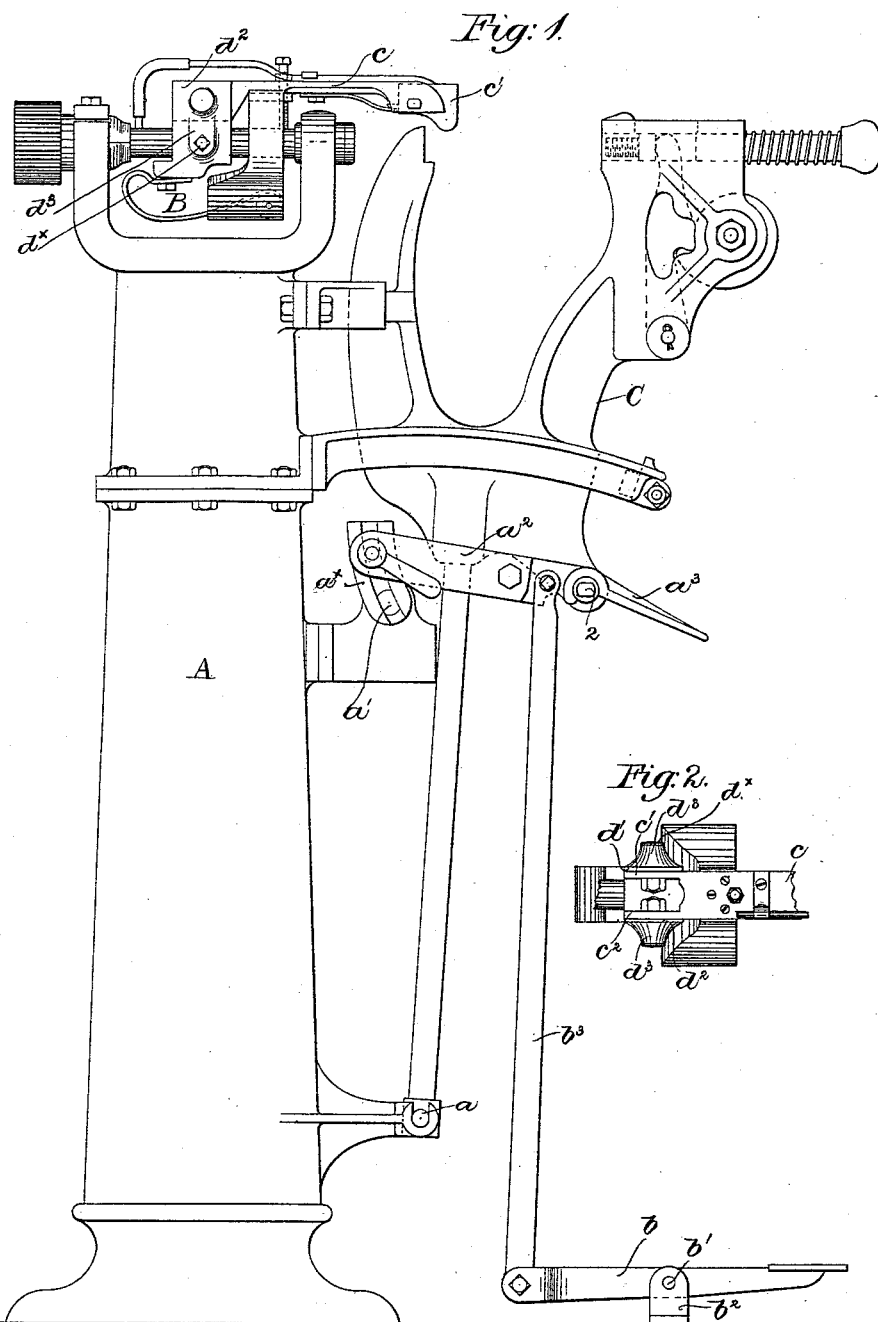


(No Model.)

C. J. ADDY.  
BURNISHING MACHINE.

No. 419,997.

Patented Jan. 21, 1890.



Witnesses:  
Edgar A. Goddin  
Frank L. Emery

Inventor:  
Charles J. Addy,  
by Crosby & Gregory  
Attys

# UNITED STATES PATENT OFFICE.

CHARLES J. ADDY, OF MALDEN, ASSIGNOR TO THE TAPLEY MACHINE COMPANY, OF BOSTON, MASSACHUSETTS.

## BURNISHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 419,997, dated January 21, 1890.

Application filed October 18, 1889. Serial No. 327,435. (No model.)

### *To all whom it may concern:*

Be it known that I, CHARLES J. ADDY, of Malden, county of Middlesex, State of Massachusetts, have invented an Improvement in Burnishing-Machines, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

This invention is intended as an improvement upon that class of burnishing-machines known as the "Tapley," and represented in the United States Patents No. 318,320, dated May 19, 1885, and No. 385,291, dated June 26, 1888, to which reference may be had. In the first-named patent the jack is pivoted to the main frame-work, and is moved to and fro by means of a hook connected to the operating mechanism. The hook referred to is arranged to engage the jack loosely, and is provided with a handle, by which it may be raised when it is desired to release the jack in order that the latter may fall away from the burnishing-tool by gravity or otherwise to permit the removal of the boot or shoe. In releasing the jack in this manner the operator is required to employ one hand needed at that time to grasp the boot or shoe, and it is one of the objects of this invention to provide means by which this movement of the hand can be avoided. The means herein employed for accomplishing this result consists of a treadle connected with the said hook, which latter when depressed will raise the hook and release the jack.

In the aforesaid Letters Patent the arm carrying the burnishing-tool is pivoted to a block by means of a single bolt, stud, or equivalent passing through the arm and entering or passing through two ears formed on the block—one at each side of the arm.

In practice it has been found that after a machine has been in use for some time the tool-carrying arm has a slight lateral movement, which gradually increases the longer the machine is used, and therefore another object of this invention is to provide means by which such lateral movement may be obviated. In my attempt to effectually remove the cause of this trouble I have provided the block with two ears similar to those shown in the patents referred to, and I have also pro-

vided the arm with the two co-operating ears, the ears on the arm and on the block being in contact, and being connected in pairs by suitable bolts or pivots.

The particular features in which my invention consist will be hereinafter pointed out, and specified in the claims.

Figure 1 shows in side elevation a burnishing-machine embodying my invention; and Fig. 2, a plan view of the pivotal connection of the carrying-arm with the supporting-block.

The column A, head B, and jack or holder C are, and may be, all substantially as shown in the patents referred to, and known as the "Tapley burnisher," so the said parts need not be herein specifically described. The jack C, pivoted to the column A at  $a$ , is moved to and fro by a rocker-shaft  $a'$ , having an arm  $a''$ , to which the hooked arm  $a^3$  is connected, the said arm at its forward end having a suitable recess or notch which engages a suitable pin or projection, as 2, fixed to and projecting from the jack, the said arm also having at its forward end a handle  $a^3$ .

To remove the boot or shoe the operator lifts the arm  $a^3$  by means of the handle  $a^3$ , and the jack or holder C falls away from the column by gravity, and with the said jack or holder in this position the operator may remove the boot or shoe by hand. As previously stated, it is desired to do these two operations in such manner as to save time of the operator; hence I have provided the machine with a treadle  $b$ , pivoted at  $b'$  to a stand  $b^2$ , and have connected this treadle by means of a treadle-rod  $b^3$  with the said arm  $a^3$ , the function of the treadle being to lift the said arm  $a^3$  when it is desired to release the jack or holder and permit the boot or shoe to be removed. The arm  $c$ , carrying the burnishing-tool  $e'$ , has two ears  $c'$   $c^2$ , and the vibrating block  $d$  is shaped to present two ears  $d'$   $d^2$  with a recess between, each ear  $d'$  having formed on it a boss, as  $d^3$ . The ears  $c'$   $c^2$  of the tool-carrying arm fit snugly between the ears  $d'$   $d^2$ , and a bolt or equivalent  $d^x$  is passed through each pair of ears  $c'$   $d'$  and  $c^2$   $d^2$ . The ears present flat contact-faces, and by the provision of two independent pivots, as shown, wear between the ears

and all lateral movement of the tool-carrying arm due to such wear may be prevented, even after years of wear.

I claim—

5 1. In a burnishing-machine, the tool and tool-carrying arm having two ears  $c'$   $c^2$ , combined with the vibrating block having two ears  $d'$   $d^2$  and two bolts or equivalents, one for each pair of ears, substantially as de-  
10 scribed.

2. In a burnishing-machine, an oscillating burnishing-tool, a jack or holder having a stud or projection and adapted to be moved under the said tool in the direction of the  
15 height of the heel to be burnished and pro-

vided with a pin or projection, and a hooked arm adapted to engage the said pin or projection, and means to reciprocate the said hooked arm, combined with a rod and treadle to effect the engagement of the said hooked 20 arm with the said stud or its disengagement therefrom, as and for the purpose set forth.

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

CHARLES J. ADDY.

Witnesses:

GEO. W. GREGORY,

FREDERICK L. EMERY.