

(No Model.)

C. M. NEWCOMB.
EDGE SETTER.

No. 575,531.

Patented Jan. 19, 1897.

Fig. 1.

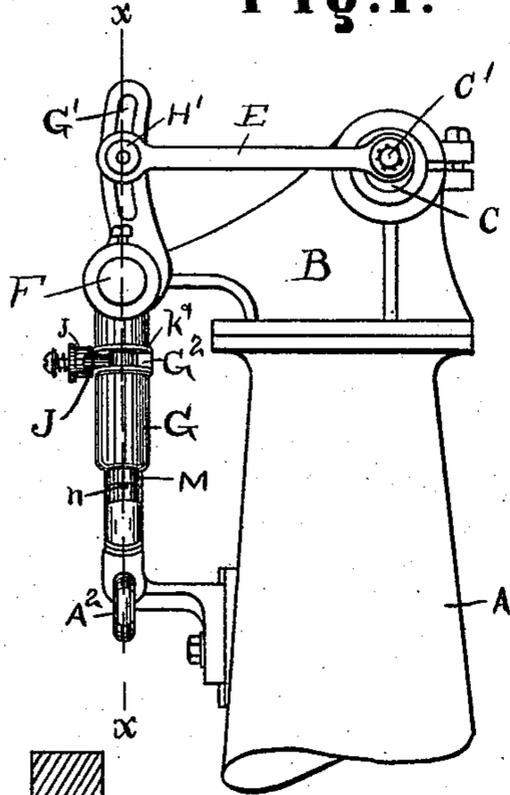


Fig. 2.

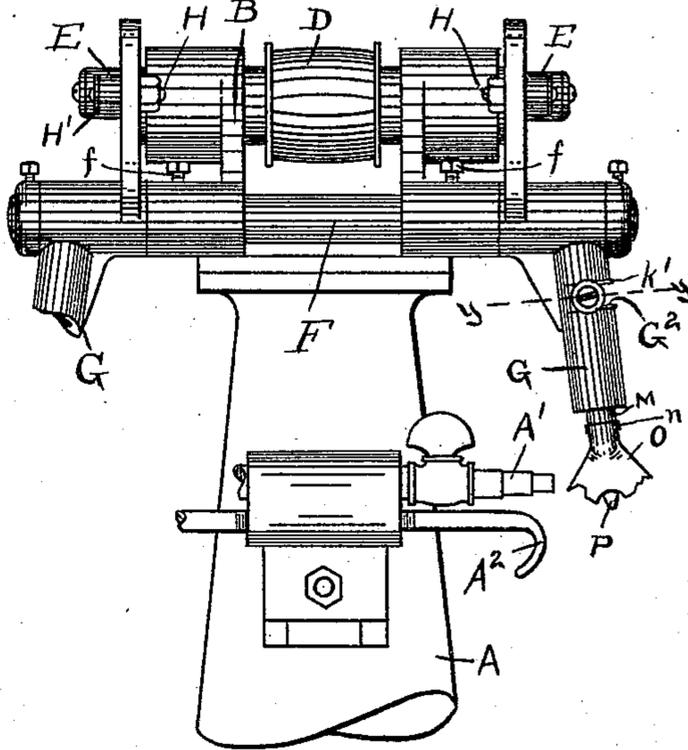


Fig. 3.

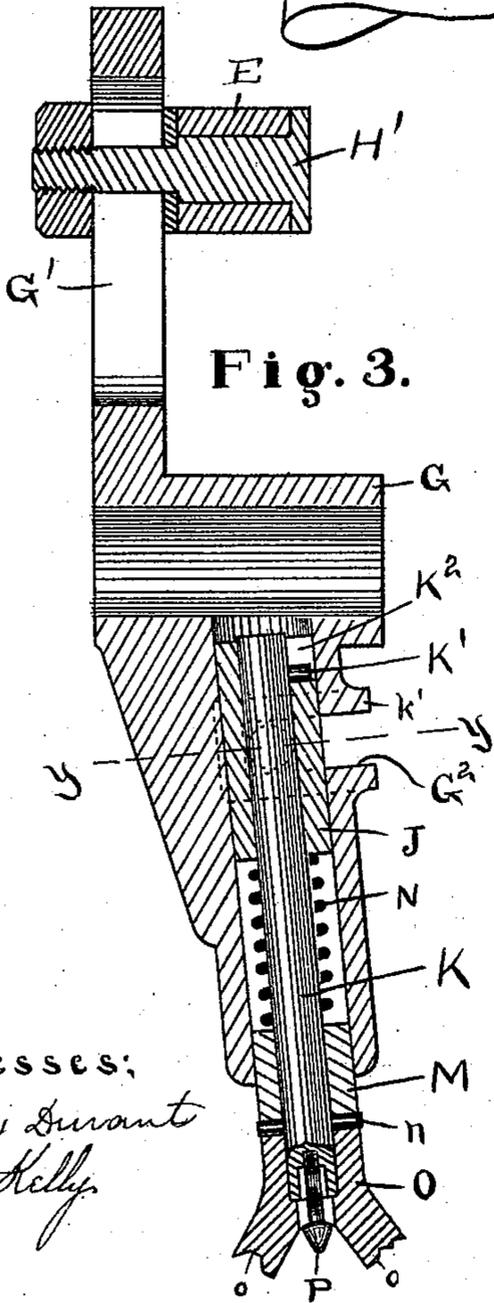


Fig. 4.

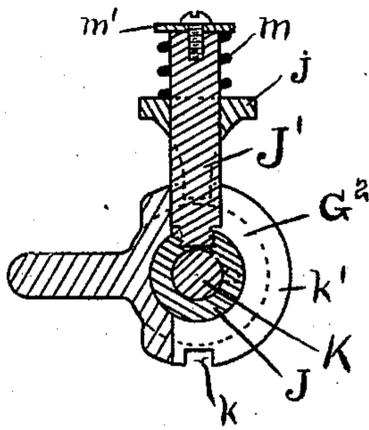
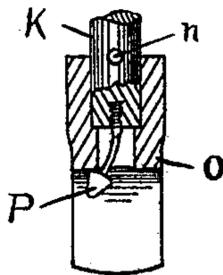


Fig. 5.



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UNITED STATES PATENT OFFICE.

CLAY M. NEWCOMB, OF ROCHESTER, NEW YORK.

EDGE-SETTER.

SPECIFICATION forming part of Letters Patent No. 575,531, dated January 19, 1897.

Application filed April 17, 1896. Serial No. 587,960. (No model.)

To all whom it may concern:

Be it known that I, CLAY M. NEWCOMB, of Rochester, in the county of Monroe and State of New York, have invented certain new and useful Improvements in Edge-Setters; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, and to the reference-letters marked thereon.

My present invention has for its object to provide an improved burnisher or edge-setting machine of the class in which the iron is capable of rapid vibration; and it consists in certain improvements in construction and combinations of parts, all as will be hereinafter fully described, and the novel features pointed out particularly in the claims at the end of this specification.

In the accompanying drawings, Figure 1 is a side elevation of a portion of a machine constructed in accordance with my invention; Fig. 2, a front view of the same; Fig. 3, a sectional view on the line *xx* of Fig. 1; Fig. 4, a sectional view on the line *yy* of Fig. 2; Fig. 5, a section showing the tool-attaching spring.

Similar reference-letters in the several figures indicate similar parts.

A indicates a standard of any suitable construction, having at its upper end a frame B, provided with suitable bearings for a shaft C, provided with a belt-pulley D, adapted to be driven by a suitable driving-belt.

C' indicates crank-pins on the ends of the shaft C, and E pitmen or connecting-rods journaled on said crank-pins at one end and at the other connected to and vibrating the arm carrying the edge-setting tool.

In the present embodiment of my invention I have provided for two vibratory arms G, on which the burnishing-tools are mounted, journaled loosely on opposite ends of a stationary shaft or arbor F, secured by set-screws *f* to the frame B, as shown in Fig. 2. Each of the arms G is provided with the sleeve-like portion extending around the shaft, and its upper end is provided with a curved slot G', in which is adjustably secured a block H, having a wrist-pin H', upon which the outer end of the connecting-rod E is journaled, said block being adjustable in the slot G' to permit variations in the throw of the vibratory

arm. The lower end of the arm is provided with a longitudinal recess, preferably inclined relatively to the plane of the upper portion of the arm, and in this recess is arranged a sleeve J, to which is secured a pin J', passing out through a slot G² at one side, and sliding upon this pin is a sleeve *j*, cut away at the sides, so that the inner ends thus formed may engage suitable notches *k*, formed in the flanges *k'* on opposite sides of the slot G².

m indicates a spring encircling the pin J' and arranged between the head of the sleeve *j* and a small washer *m'*, removably secured to the end of the pin J', which spring operates to hold the engaging portions of the sleeve *j* in engagement with the notches *k*, thereby locking the sleeve J and preventing its rotation relative to the vibratory carrier.

K indicates a spindle operating through the sleeve J, having at its upper end a small pin K', operating in a vertical slot K² in the upper end of the sleeve J.

M is a ring or collar held against a transverse pin *n* in the lower end of the spindle K by means of a spring N, encircling said spindle and arranged between the sleeve J and the collar M, as in Fig. 3.

O indicates a double edge-setter or burnishing-tool having two operative faces *o* projecting in the present construction at an angle to each other, as shown, said tool being provided with a socket to fit over the end of the spindle K and is held in position thereon by means of a spring-catch P, as shown in Fig. 5, the upper sleeved portion of the tool having slight recesses engaging the pin *n* and preventing rotary movement on the spindle.

It will be understood that tools having more than two faces may be employed, if desired.

Mounted upon the standard A are the usual gas-burners A' and the finger-hooks A², the flame from said burners operating to heat the tool properly, while the hooks serve their usual purpose of enabling the operator to steady the shoe being operated upon.

By the employment of the double tool, the edge-setting faces being arranged close together, as shown, both of said faces are heated at the same time, and the operator may bring one or the other of them into operative position by a manipulation of the sleeve J, turning the spindle carrying the tool, and locking

it when reversed by the sleeve, as will be understood from an inspection of Figs. 3 and 4. The tool is held in engagement with the shoe by the pressure of the spring N, surrounding the spindle, and the latter is permitted to yield slightly by reason of the slot-and-pin connection of its upper end with the sleeve J.

By making the slot in the upper end of the vibratory tool-carrying arm curved, as shown, said curve being approximately on an arc struck from the center of the driving-shaft C, the latitude of movement of the arm can be changed without causing the center of the arc described by the tool to vary from just over the finger-hook.

I claim as my invention—

1. In an edge-setting machine, the combination with the vibratory arm having the longitudinal recess, the rotary sleeve, and means for locking it, the spindle longitudinally movable in the sleeve but prevented from independent rotary movement, the spring pro-

jecting the spindle, and the reversible tool on the spindle, substantially as described.

2. In an edge-setter, the combination with the vibratory arm having the longitudinal recess, the rotary sleeve, and locking devices therefor, of the spindle, the tool thereon, the slot-and-pin connection between the sleeve and spindle, and the spring for projecting the latter, substantially as described.

3. The combination with the vibratory arm having the longitudinal recess and lateral slot, the sleeve having the projecting arm and the locking device thereon, the spindle and the slot-and-pin connection between it and the sleeve, the collar M on the spindle, the spring N, the catch on the spindle, and the reversible tool having two operating-faces and held by the catch, substantially as described.

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Witnesses:

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