

No. 656,609.

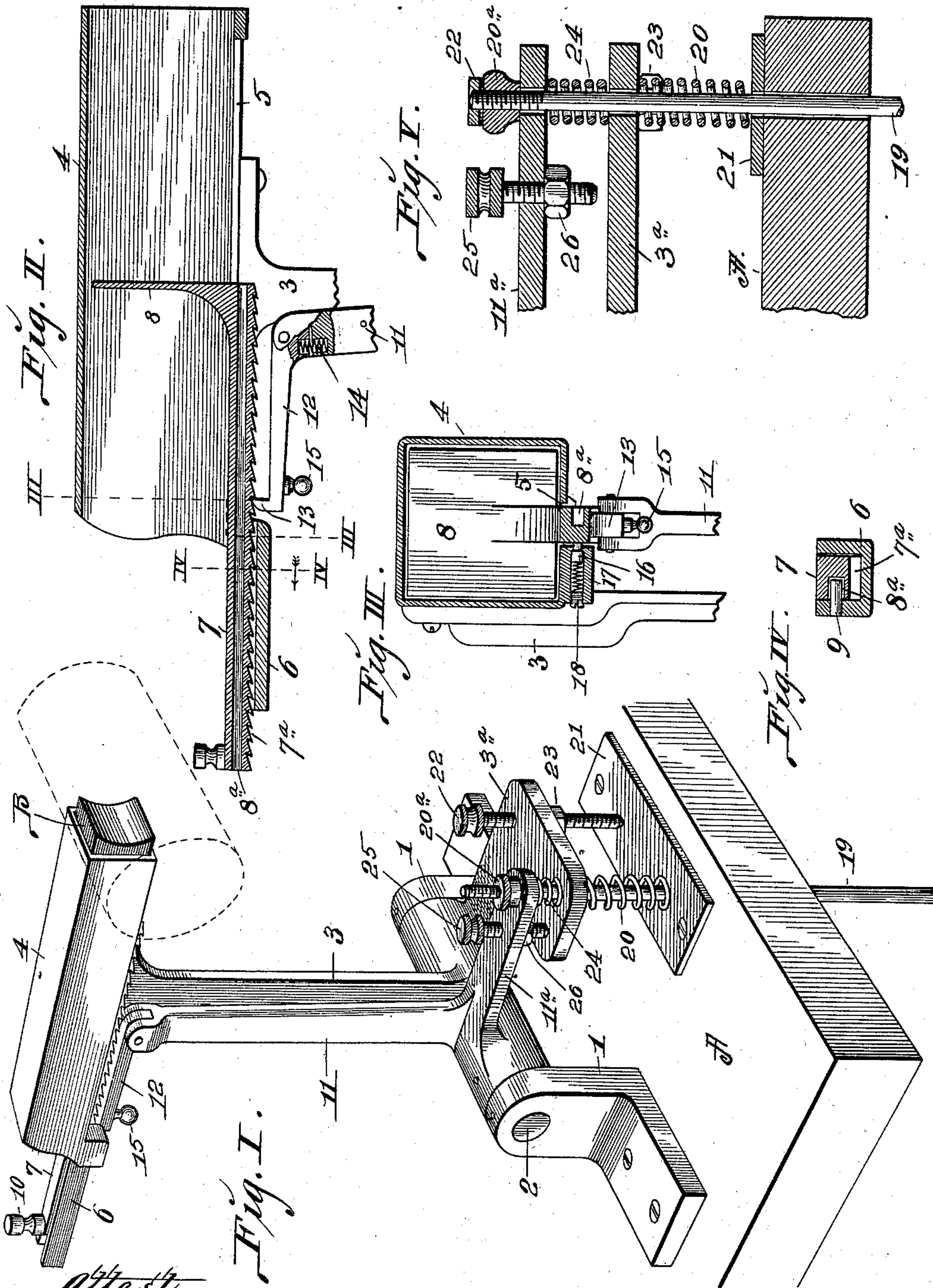
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E. H. McHALE.

BURNISHING WAX HOLDER AND FEEDER.

(Application filed Jan. 27, 1900.)

(No Model.)



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UNITED STATES PATENT OFFICE.

EDWARD H. McHALE, OF LOUISVILLE, KENTUCKY, ASSIGNOR OF ONE-HALF
TO WILLIAM D'OENCH, JR., AND JAMES M. HAYS, OF SAME PLACE.

BURNISHING-WAX HOLDER AND FEEDER.

SPECIFICATION forming part of Letters Patent No. 656,609, dated August 21, 1900.

Application filed January 27, 1900. Serial No. 2,954. (No model.)

To all whom it may concern:

Be it known that I, EDWARD H. McHALE, a citizen of the United States, residing at Louisville, in the county of Jefferson and State of Kentucky, have invented certain new and useful Improvements in Burnishing-Wax Holders and Feeders, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

My invention relates to a device for holding and feeding burnishing-wax to a waxing-roll for the purpose of supplying the wax to said roll, from which it is communicated to boot and shoe soles and heels or any article of leather it may be desired to burnish.

The present method of furnishing leather articles with a polished surface consists in first applying a dye or ink of the color desired and then burnishing or polishing the surface of the article by applying a burnishing-wax to a revolving roll and rotating said roll at a high speed while the article to be burnished is held thereagainst, resulting in the friction between the roll and the article producing heat and the heated wax being transferred to the article operated upon. The surface of the leather article after being coated with the wax is next polished by being held against the polishing brush or wheel of any desirable form.

The object of my invention is to produce a simple and efficient device for applying the burnishing-wax to the waxing-roll. For the purpose of accomplishing the object herein stated I have devised a holder for a stick of burnishing-wax adapted to hold said wax presented to the waxing-roll and means in connection with the holder to feed it forward in the holder as it is consumed by being transferred to the roll.

The invention consists in features of novelty hereinafter fully described, and pointed out in the claims.

Figure I is a perspective view of my holder and feeder. Fig. II is a longitudinal sectional view taken through the wax-holding and the feeding follower located therein. Fig. III is a cross-sectional view taken on the line III-III, Fig. II. Fig. IV is a cross-sectional view taken on the line IV-IV, Fig. II. Fig. V is

an enlarged vertical sectional view taken through the arms of the main and auxiliary rockers of the wax-holding box and feeder and the springs on which said arms rest.

1 designates standards mounted on a suitable base A, and in the standards is journaled a shaft 2, on which is mounted a main rocker 3, that is surmounted by and carries a box 4, adapted to receive a stick B of burnishing-wax. (See Fig. I.) The box 4 is open at its ends and is provided in its lower side with a longitudinal slot 5. At the rear end of the box is a depressed channeled extension 6, that receives a slide 7, equipped at its forward end with a follower 8, arranged to move in the interior of the box 4. The slide 7 is provided with a longitudinal groove 8^a in one side, that receives a lateral guide-pin 9 in the wall of the extension 6, through the aid of which pin the slide is held in the channeled extension and directed in the longitudinal movement thereof. At the rear end of the slide is a knob 10, by which the slide may be moved outwardly to retract it after it has been fed forward.

11 designates an auxiliary rocker loosely journaled on the shaft 2, that has pivoted to its upper end a pawl 12, provided with a hook 13, adapted to engage rack-teeth 7^a, located upon the under side of the slide 7. The pawl 12 is maintained in engagement with the rack-teeth 7^a by a spring 14 bearing thereagainst, and it is provided with a knob 15, by which the hook 13 may be withdrawn from engagement with the rack-teeth on the retraction of the slide 7.

In the opposite wall of the extension 6 from that occupied by the guide-pin 9 is a friction-pin 16, loosely seated and backed by a spring 17, held by an adjustment-screw 18. The outer end of the friction-pin 16 is adapted to bear against the side of the slide 7 with sufficient friction to hold the slide against accidental rearward movement by reason of the friction of the pawl-hook 13 in the rearward movement of the pawl to engage the next succeeding rack-tooth 7^a.

3^a designates an arm projecting from the wax-holder main rocker 3, and 11^a is an arm projecting from the pawl-carrying auxiliary rocker 11, said last-named arm occupying a position above the first-named.

19 designates a pull-rod, which may have connected to it a treadle or other suitable device by which it is actuated. Surrounding the pull-rod 19 is a spring 20, that rests upon a plate 21 on the base A and supports the main-rocker arm 3^a.

22 is an adjustment-screw seated in the main-rocker arm 3^a, on which is a jam-nut 23, the point of the screw being adapted to rest upon the plate 21 to limit the downward movement of the main-rocker arm 3^a, and consequently regulate the forward throw of the main rocker 3 and the box 4, carried thereby. The pull-rod 19 passes loosely through the main rocker 3^a and through the auxiliary-rocker arm 11^a, to which it is held by a nut 20^a. Surrounding the pull-rod and located between the rocker-arms 3^a and 11^a is a spring 24 of greater strength than the spring 20. In the auxiliary-rocker arm 11^a is an adjustment-screw 25, provided with a jam-nut 26, the point of said screw being adapted to be brought into contact with the top surface of the main-rocker arm 3^a to limit the downward movement of the auxiliary-rocker arm 11^a, and consequently the forward throw of the pawl-carrying auxiliary rocker 11.

In the practical use of the device it is mounted so that the mouth of the wax-holding box 4 is in proximity to the waxing-roller, (indicated, diagrammatically, by dotted lines in Fig. I,) but with the mouth end of the box slightly removed from the roller. To bring the stick B of wax against the waxing-roller, the pull-rod 19 is moved by the actuating means thereof, by which action the rocker-arms 3^a and 11^a are moved downwardly, the feeding-follower is moved forwardly, and the wax is moved through the box 4 toward the waxing-roller, thus bringing the wax in contact with the face thereof. In the primary movement of the rocker-arms the lower spring 20 is first compressed by reason of its being weaker than the upper spring 24, and as a consequence the pawl-carrying auxiliary rocker 11 is only moved thus far in unison with the box-carrying main rocker 3 in the action of throwing the box 4 forwardly. Continued pull upon the pull-rod 19 causes the stronger spring 24 to be compressed between the arms 3^a and 11^a to the limit permitted by the adjustment-screw 25, and the downward movement of the auxiliary-rocker arm 11^a results in the auxiliary rocker 11 being rocked still further independently of the main rocker 3, which is stopped from further movement by the adjustment-screw 22. Such independent movement of the auxiliary rocker 11 causes the pawl 12 to move the slide 7 forwardly by reason of its engaging with the rack-teeth 7^a to cause the follower 8 to be moved forwardly and feed the stick of wax outwardly against the waxing-roller. When the strain upon the pull-rod is relieved, the parts return to their normal position and the pawl is in position to engage the next succeeding tooth 7^a of the slide-rack. It will

thus be observed that the stick of wax is fed intermittently at each operation of the device.

I claim as my invention—

1. A burnishing-wax holder and feeder comprising a wax-holding box, means for advancing and retracting the wax-holding box, and means for intermittently feeding the wax controlled by the means for operating the wax-holding box.

2. In a device of the character described, the combination of a wax-holding box, a feeding-follower located in said box, means on which said box is supported, means for imparting movement to the box and means for imparting movement to said follower controlled by said means for imparting movement to the box, substantially as described.

3. In a device of the character described, the combination of a wax-holding box, a rocker, on which said box is mounted, a follower in said box, a second rocker through the medium of which said follower is moved, and means for operating said rockers, substantially as described.

4. In a device of the character described, the combination of a wax-holding box, a rocker on which said box is mounted, a follower arranged in said box, a second rocker, means for operating said rockers, and means for limiting the movement of said rockers, substantially as described.

5. In a device of the character described, the combination of a wax-holding box, a rocker on which said box is mounted, a follower movably arranged in said box, a second rocker, a pawl carried by said second rocker adapted to cause the movement of said follower, and means for operating said rockers, substantially as described.

6. In a device of the character described, the combination of a wax-holding box, a rocker on which said box is mounted, a slide movably arranged in said box, a follower carried by said slide, rack-teeth on said slide, a second rocker, a pawl carried by said second rocker adapted to engage said rack-teeth, and means for operating said rockers, substantially as described.

7. In a device of the character described, the combination of a wax-holding box, a rocker on which said box is mounted, a slide movably arranged therein, a follower carried by said slide, a guide-pin arranged in engagement with said slide, rack-teeth on said slide, a second rocker, a pawl carried by said second rocker adapted to engage said rack-teeth, and means for operating said rockers, substantially as described.

8. In a device of the character described, the combination of a wax-holding box, a rocker on which said box is mounted, a slide movably arranged in said box, a follower carried by said slide, a friction-pin carried by said box adapted to bear against said slide, rack-teeth on said slide, a second rocker, a pawl carried by said second rocker adapted to engage said

rack-teeth, and means for operating said rockers, substantially as described.

9. In a device of the character described, the combination of a wax-holding box, a rocker
5 on which said box is mounted, an arm projecting from said rocker, an adjustment-screw for limiting the throw of said rocker, a follower movably arranged in said box, and means for moving said follower, substantially as described.
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10. In a device of the character described, the combination of a wax-holding box, a rocker on which said box is mounted, an arm projecting from said rocker, means for limiting the
15 movement of said arm, a follower arranged in said box, a slide by which said follower is carried, a second rocker by which said slide is moved, an arm projecting from said second rocker, a spring located beneath the arm of
20 said first-named rocker, and a spring of

greater strength than said first-named spring located between said rocker-arms, substantially as described.

11. In a device of the character described, the combination of a wax-holding box, a rocker
25 on which said box is mounted, an arm projecting from said rocker, an adjustment-screw for limiting the movement of said arm, a spring located beneath said arm, a follower-slide located in said box, a second rocker, a pawl
30 carried by said second rocker adapted to engage said slide, an arm projecting from said second rocker, an adjustment-screw in said last-named arms, a pull-rod extending through
35 said arms, and a spring located between said arms, substantially as described.

EDWARD H. McHALE.

In presence of—

CHARLES L. A. JOHNSON,
PRATHER FERGUSON.