A. BECKMAN.

WAX APPLYING DLVICE FOR HEEL BURNISHING MACHINES, &c.

APPLICATION FILED AUG. 9, 1911.

1,031,231. **Patented July 2, 1912.**

Fig. 1.

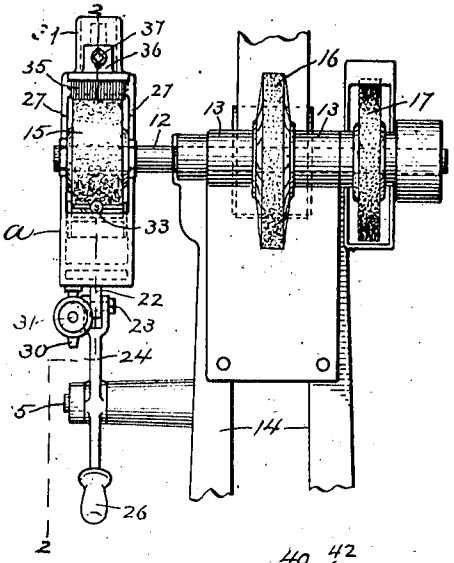
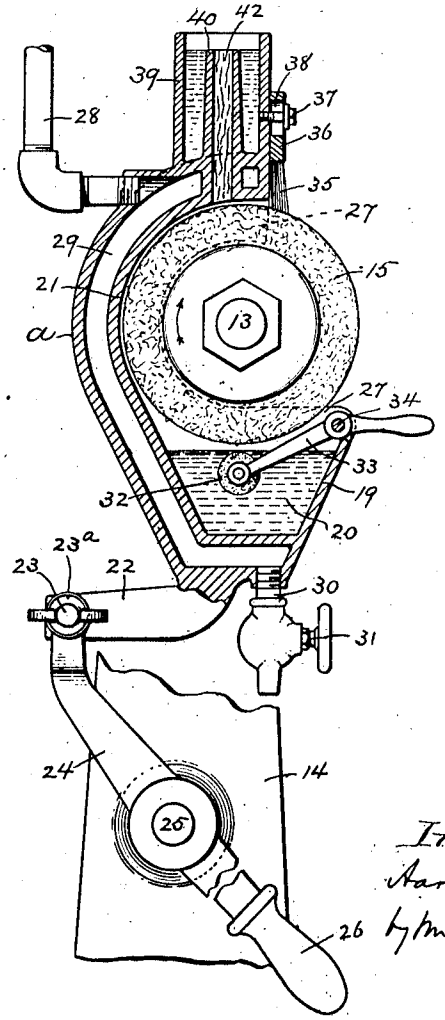


Fig. 2.



Witnesses:
Harry L. Allen
P. A. Pezzetti

Inventor:
Aaron Beckman
by Wright Brown Quinby & May
Attys.

UNITED STATES PATENT OFFICE.

AARON BECKMAN, OF LYNN, MASSACHUSETTS.

WAX-APPLYING DEVICE FOR HEEL-BURNISHING MACHINES, &c.

1,031,231. Specification of Letters Patent. Patented July 2, 1912.

Application filed August 9, 1911. Serial No. 643,235.

To all whom it may concern:

Be it known that I, AARON BECKMAN, of Lynn, in the county of Essex and State of Massachusetts, have invented certain new and useful Improvements in Wax-Applying Devices for Heel-Burnishing Machines, &c., of which the following is a specification.

This invention relates to means for applying burnishing wax in a melted or soft state to the surfaces of heels and other parts of boots and shoes, the wax being applied by a rotating roll which is surfaced with felt or other material adapted to absorb and carry the wax and apply it to a surface pressed against the periphery of the roll.

The invention has for its object to provide means for maintaining a wax-applying roll in a properly heated condition and for applying thereto a suitable quantity of wax without liability of wasting the wax or applying an excessive quantity of the same to the surface to be burnished.

The invention consists in the improvements which I will now proceed to describe and claim.

Of the accompanying drawings forming a part of this specification,—Figure 1 represents a front elevation of a portion of a heel-burnishing machine embodying my invention. Fig. 2 represents a section on line 2—2 of Fig. 1.

The same reference characters indicate the same parts in all the figures.

In the drawings, 12 represents a shaft journaled in suitable fixed bearings 13 on a supporting frame or standard 14. To the shaft 12 is affixed a wax-applying roll 15 which is preferably surfaced with felt or other absorbent material, the shaft being also preferably provided with a burnishing roll 16 and a circular brush 17 as usual in heel-burnishing machines employing a burnishing wax. The portion of the shaft 12, to which the roll 15 is attached, projects from one side of the supporting standard, as shown by Fig. 1.

In carrying out my invention, I support, adjacent to the roll 15, a frame *a* adapted to be heated, said frame including an open wax trough 19 adapted to hold a body of wax 20 below the roll 15, and a radiating face 21 which is recessed and is in close proximity to a considerable part of the periphery of the roll 15 at the inner side of said roll as shown by Fig. 2. Means are provided for supporting the frame *a* with its radiating face 21 in close proximity to, but not in contact with, the periphery of the roll 15. As here shown, the frame is provided at its lower end with an arm 22 to which is connected by a bolt 23 one arm of a lever 24 which is fulcrumed on a stud 25 attached to the standard 14, the other arm of the lever having a handle 26 whereby the lever may be moved to adjust the radiating face 21 toward and from the periphery of the roll 15. The bolt 23 is provided with a clamping nut 23^a which enables the lever 24 and arm 22 to be firmly connected.

The lower portion of the roll projects downwardly into the upper portion of the wax trough 19, the sides of said trough being extended upwardly to form flanges 27 overlapping portions of the ends of the roll 15, the margins of said flanges being shown mainly by dotted lines in Fig. 2.

The frame *a* is adapted to be heated preferably by means of steam admitted through a pipe 28 into the upper portion of a steam chamber 29 formed in the frame *a*, said chamber being coextensive with the radiating face 21 and extending under the bottom of the wax trough 19, as shown by Fig. 2.

30 represents an outlet for waste steam and water of condensation, communicating with the lower end of the chamber 29 and provided with a valve 31.

The pipe 28 coöperates with the lever 24 to retain the frame *a* in position.

The wax deposited in the trough 19 is melted or suitably softened by the heat of the frame *a* and may be applied to the periphery of the roll 15 by any suitable means, such as a felt pad 32 mounted on a lever 33 which is fulcrumed at 34 on the frame, a portion of said lever projecting outwardly and serving as a handle whereby the operator may raise the pad 32 to cause it to apply wax to the periphery of the roll 15. The pad 32 is normally submerged in the melted wax.

The radiating face 21, conforming as shown to a considerable portion of the periphery of the roll 15 above the wax trough, keeps said roll and the wax applied thereto in a suitably heated condition, so that, when the wax reaches the exposed front portion of the roll to which the surface to be waxed is applied, it is in suitable condition to coat said surface. The roll 15 is rotated at a slow rate in the direction indicated by the

arrow in Fig. 2. A brush or spreader 35 may be employed to remove any excess wax from the periphery of the roll before it reaches the point of application, said brush being arranged to bear on the periphery of the roll just above the exposed portion of the same, and being attached to a holder 36 which is secured to the frame by a bolt 37 passing through a slot 38 in the holder, this construction permitting the brush to be adjusted toward and from the periphery of the roll.

As an additional means of applying wax to the roll, I show a wax cup 39 formed on the upper portion of the frame *a*, said cup containing a stand-pipe 40 which extends through the radiating face 21 and contains a capillary filling 42 which may be composed of bristles or wicking loosely confined in said cup. The cup 39 is charged with wax which is melted by the heat of the frame, the wax overflowing through the stand-pipe 40 and being slowly deposited on the periphery of the roll 15. It will of course be necessary for the operator to supply the cup 39 with wax from time to time sufficient in quantity to enable it to overflow into the stand-pipe 40.

I claim:—

1. A wax applying device comprising a rotary roll, an adjustable frame located adjacent the roll, said frame having a recessed radiating face conforming to the periphery of the roll and extending over a portion of said periphery, means for heating said frame, and means for supporting said frame independently of said roll and with its radiating face at different distances from the roll.

2. A wax applying device comprising a rotary roll, a lever fulcrumed to a fixed support contiguous to said roll, a frame supported by said lever and independently of said roll, said frame having a recessed radiating face conforming to the periphery of the roll and extending over a portion of said periphery, and means for heating said frame.

3. A wax applying device comprising a rotary wax carrying roll, a frame supported adjacent to the roll and independently thereof, said frame being provided with a wax trough below the roll and a recessed radiating face conforming to the periphery of said roll and extending over a portion of said periphery, and means for heating said frame, said trough being provided with means for applying wax to the periphery of said roll.

4. A burnishing machine attachment comprising a frame, and means for adjustably securing said frame to a fixed part of the machine, an independently supported wax-carrying roll, said frame having a recessed radiating face adapted to conform to the periphery of said wax-carrying roll, means for heating said frame, and means for holding wax in position to be softened by the heat of the frame.

5. A wax-applying device comprising a rotary wax-carrying roll, a frame adjustably supported adjacent to the roll and independently of the latter, said frame having a recessed radiating face conforming to the periphery of the roll, and a wax cup above the roll, said cup having an outlet extending through said radiating face, and means for heating said frame.

6. A wax-applying device comprising a wax-carrying roll, a frame adjacent said roll, said frame being provided with a recessed radiating face in close proximity to the periphery of said roll, means carried by said frame for supplying wax to said roll, a wax spreader independent of the wax-supplying means, said spreader being adjustably supported at one end of said frame and arranged to bear upon the periphery of said roll, and means for heating said frame.

7. A wax-applying device comprising a rotary wax-carrying roll, a frame supported adjacent to the roll and independently thereof, said frame being provided with a wax trough below the roll and a recessed radiating face conforming to the periphery of said roll and extending over a portion of said periphery, a lever pivotally mounted in said wax trough, a wax-applying pad carried by said lever, and means for heating said frame.

In testimony whereof I have affixed my signature, in presence of two witnesses.

AARON BECKMAN.

Witnesses:
C. F. BROWN,
P. W. PEZZETTI.