

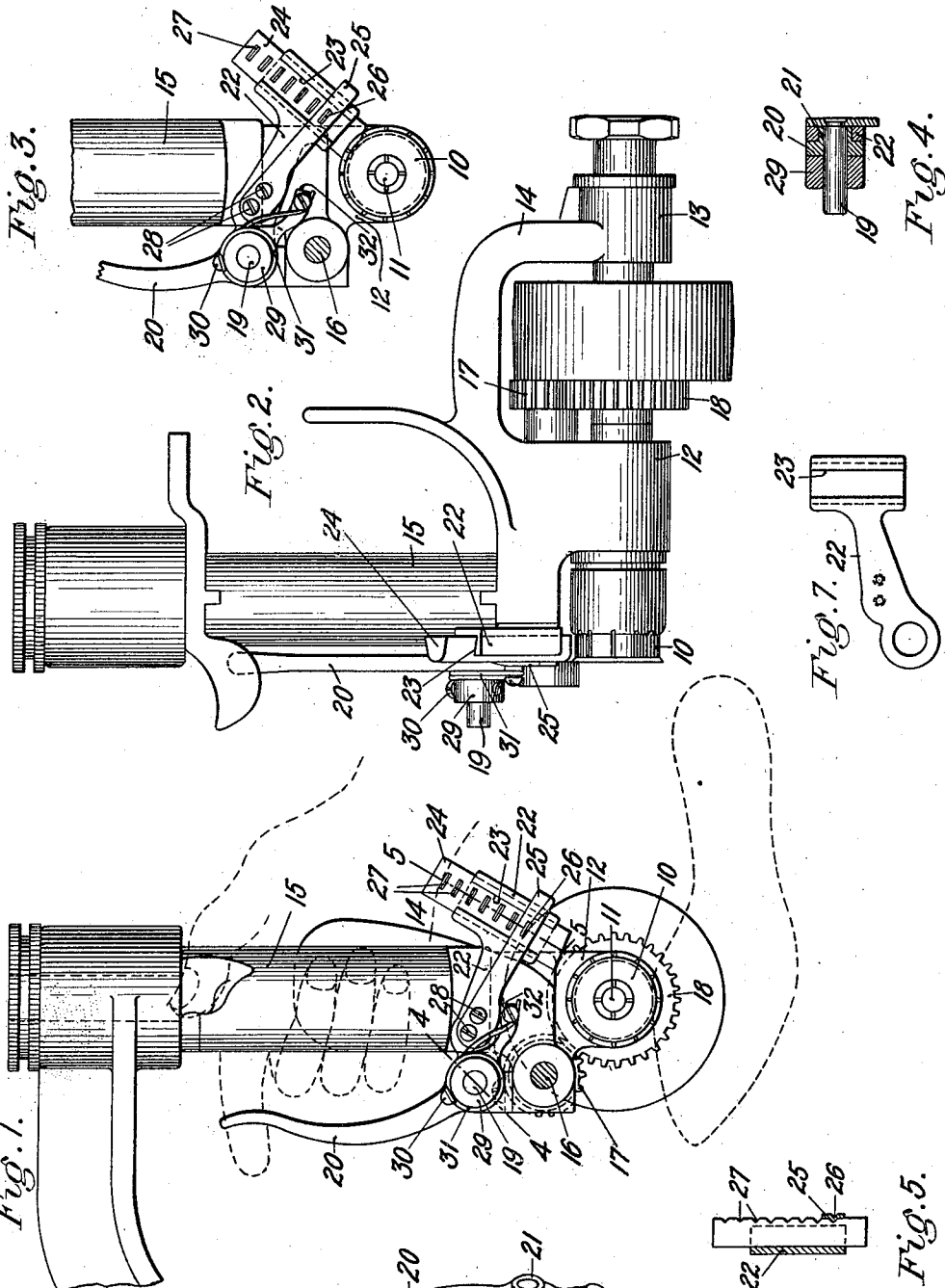
Z. BEAUDRY.

EDGE SETTING OR BURNISHING MACHINE.

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1,000,575.

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Witnesses:
Ernest C. Felke
William C. Glass

Inventor
Zotijne Beaudry
 by his attorney
Walter S. Gooding

UNITED STATES PATENT OFFICE.

ZOTIQUE BEAUDRY, OF LYNN, MASSACHUSETTS.

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Specification of Letters Patent. Patented Aug. 15, 1911.

Application filed July 1, 1908, Serial No. 441,317. Renewed January 6, 1911. Serial No. 601,244.

To all whom it may concern:

Be it known that I, ZOTIQUE BEAUDRY, a citizen of the United States, residing at Lynn, in the county of Essex and State of Massachusetts, have invented new and useful Improvements in Edge Setting or Burnishing Machines, of which the following is a specification.

This invention relates to improvements in edge setting or burnishing machines and particularly to the means for applying wax to the rotary tool. Heretofore, in machines of this class the wax remained in contact with the rotary tool during the entire time consumed by the setting or burnishing operation with the result that more wax was applied to the sole edge than was necessary or desirable. When there is too much wax applied to the sole edge not only is the appearance and quality of the work spoiled, but there is incidentally a waste of the wax.

The object of this invention is to place the applying of the wax to the tool entirely within the control of the operator, who may at his discretion cause the wax to move into and out of contact with the tool during the setting or burnishing operation, that is, during the time when the sole edge is in actual contact with the tool. More or less wax may be required for different shoes according to differences in the density of the leather and the operator can apply more or less of the wax as occasion may require.

I have chosen to illustrate my present invention as applied to a tool carrying head such as is disclosed in United States Letters Patent granted to me September 20, 1904, No. 770,415, in which the shoe is mounted on a rotatable support and the tool carrying head is adapted to be moved by the hand of the operator relatively to the shoe during the operation of setting and burnishing.

In applying the device of my present invention to the tool carrying head, I have provided an operating lever adjacent to the handle which the operator grasps to move the head, said lever being adapted to be moved by the index finger of the operator to allow the wax to be carried into contact with the rotary tool and when the lever is released the wax is carried out of contact with the tool and this is accomplished while the sole edge is in contact with the tool.

Another object of my invention is to provide a convenient means for adjustably mounting the stick of wax in the wax holder

so that the wax may be moved out of the holder little by little as the stick wears off.

The invention consists in the combination and arrangement of parts set forth in the following specification and particularly pointed out in the appended claims.

Referring to the drawings: Figure 1 is a side elevation and Fig. 2 a front elevation of an edge setting or burnishing head to which the device of my invention is applied, said head being substantially like that shown in the aforesaid Letters Patent. Fig. 3 is a detail side elevation, partly broken away to save space, showing the wax in contact with the rotary tool. Fig. 4 is a detail sectional elevation taken on line 4—4 of Fig. 1, looking toward the left. Fig. 5 is a detail sectional elevation taken on line 5—5 of Fig. 1, looking toward the right. Fig. 6 is a detail perspective view of the operating lever which releases the wax holder and allows the same to carry the wax into contact with the rotary tool. Fig. 7 is a detail side elevation of the wax holder.

Like numerals refer to like parts throughout the several views of the drawings.

In the drawings, 10 is the rotary tool which may be used for setting or burnishing the edges of the forepart of a shoe sole, said tool being fast to a shaft 11 journaled in bearings 12 and 13 in the tool carrying head 14. The head 14 is provided with a vertical handle 15 which is adapted to be grasped by the hand of the operator in the manner illustrated by dotted lines in Fig. 1. The tool carrying head 14 and the shoe which is being operated upon are moved relatively during the operation to carry the rotary tool 10 into contact with all parts of the edge of the forepart of the sole. Incidentally the shank portion of the sole edge is operated upon by the rotary tool, not shown, which may be secured to a shaft 16 having fast thereto a gear 17 meshing into a gear 18 fast to the shaft 11. Fast to the tool carrying head 14 is a stud 19 on which is pivoted a lever 20 which is conveniently arranged to be engaged by the index finger of the operator's hand which grasps the handle 15.

The lever 20 is provided with a boss 21 upon which is loosely mounted a wax holder 22 which consists of an arm provided with a dovetailed groove or guide 23 for the reception of a stick of wax 24, said wax being held in said groove by means of a spring 25

which is adapted to engage said wax. The spring 25 may be provided with a projection 26 adapted to engage one of a plurality of notches 27 formed in the stick of wax 24.

5 As the wax is used up the stick may be pushed downwardly, thus causing the spring 25 to yield outwardly and when a second notch comes into alinement with the projection 26, said projection will enter said
10 notch and hold the wax firmly. The spring 25 in this instance consists of a flat resilient plate which is secured to the holder 22 by means of screws 28. The lever 20 and wax holder 22 are held in their proper relation
15 with each other and with the stud 19 by means of a collar 29 surrounding said stud and secured thereto by means of a set screw 30.

Surrounding the collar 29 is a torsional spring 31, one end of which is wound about
20 the screw 30, while the other end bears against a screw or other projecting part 32 upon the lever 20, said spring acting to normally hold said lever in contact with the wax holder 22 and acting to press said wax
25 holder upwardly to hold the wax out of contact with the rotary tool 10. The tension of the spring 31 may be varied by loosening the set screw 30 and rotating the collar 29 in the proper direction. At such time dur-
30 ing the setting or burnishing operation as may be necessary, the operator engages the lever 20 with his index finger and draws said lever toward the right from the position shown in Fig. 1 into the position shown
35 in Fig. 2. The wax holder 22 being loosely pivoted on the hub 21 will be carried by gravity downwardly until the wax 24 rests against the periphery of the rotary tool 10.

After the wax has engaged the periphery
40 of the rotary tool, continued movement of the lever 20 causes the short arm of said lever to pass out of engagement with the wax holder 22, thereby causing the wax to bear against the rotary tool by the combined
45 weight of said wax and said wax holder. When sufficient wax has been applied to the rotary tool, the operator releases the lever 20 and the spring 31 acts to cause said lever to once more engage the wax holder 22 and move
50 the same upwardly, thereby moving the wax out of contact with the rotary tool.

Having thus described my invention, what I claim and desire by Letters Patent to secure is:

55 1. In an edge setting or burnishing machine, a rotary tool, means to support a piece of wax, and other means constructed and adapted to be actuated by the operator during the burnishing operation to allow said
60 piece of wax to be carried into contact with said tool and adapted to move said wax out of contact with said tool during the burnishing operation.

65 2. In an edge setting or burnishing machine, a rotary tool, means to support a piece

of wax, and means constructed and adapted to be actuated by the operator during the burnishing operation to allow said piece of wax to be carried by gravity into contact with said tool, said second-named means
70 being adapted to move said wax out of contact with said tool during the burnishing operation.

3. In an edge setting or burnishing machine, a rotary tool, means to support a
75 piece of wax, and other means constructed and adapted to be actuated by the hand of the operator during the burnishing operation to allow said wax to be carried into contact with said tool and adapted to move
80 said wax out of contact with said tool during the burnishing operation.

4. In an edge setting or burnishing machine, a rotary tool, means to support a
85 piece of wax, and other means constructed and adapted to be actuated by the hand of the operator during the burnishing operation to release said wax and allow the same to be carried by gravity into contact with
90 said tool and adapted to move said wax out of contact with said tool during the burnishing operation.

5. In an edge setting or burnishing machine, a rotary tool, means to support a
95 piece of wax, a spring adapted to move said wax out of contact with said tool, and means adapted to be actuated by the operator during the burnishing operation to overcome the tension of said spring and allow said wax
100 to be moved into contact with said tool.

6. In an edge setting or burnishing machine, a rotary tool, means to support a
105 piece of wax, a spring adapted to move said wax out of contact with said tool, and means adapted to be actuated by the operator during the burnishing operation to overcome the tension of said spring and allow said wax to be moved by gravity into contact
110 with said tool.

7. In an edge setting or burnishing machine, a rotary tool, a wax holder adapted
115 to carry wax into and out of contact with said tool, a device adapted to normally hold said wax out of contact with said tool, and means constructed and adapted to be actuated by the operator during the burnishing operation to act upon said device, whereby
120 said wax holder is adapted to carry said wax into contact with said tool, said means being adapted to move said wax out of contact with said tool during the burnishing operation.

8. An edge setting or burnishing machine, having in combination, a rotary tool, means
125 to support a piece of wax, and other means constructed and adapted to be actuated by the operator to allow said wax to be carried into and out of contact with said tool during the burnishing operation.

9. In an edge setting or burnishing ma- 130

chine, a rotary tool, a wax holder movable toward and away from said tool, said holder having a guide for a stick of wax provided with a depression in one side thereof, and
 5 a device adapted to enter said depression and hold said stick in said guide.

10 10. In an edge setting or burnishing machine, a rotary tool, a wax holder movable toward and away from said tool, said holder having a guide for a stick of wax provided with a series of depressions in one side thereof, and a spring adapted to engage one of said depressions and hold said wax in
 15 said guide.

20 11. In an edge setting or burnishing machine, a tool support, a handle on said tool support by which the same is adapted to be moved, a rotary tool mounted on said tool support, and means to move a piece of wax relatively to said tool whereby wax may be supplied thereto, said means comprising
 25 a member located adjacent to said handle and adapted to be moved by a portion of the operator's hand which grasps said handle.

12. In an edge setting or burnishing machine, a rotary tool, a pivoted wax holder adapted to carry a piece of wax into contact

with said tool, a lever adapted to rock said wax holder on its pivot to move said wax out of contact with said tool, and a spring
 30 adapted to normally hold said lever in operative connection with said wax holder, whereby said wax is held out of contact with said tool.

13. In an edge setting or burnishing ma-
 35 chine, a tool support, a handle on said tool support by which the same is adapted to be moved, a rotary tool mounted on said tool support, a pivoted wax holder adapted to carry a piece of wax into contact with said
 40 tool, and a lever located adjacent to said handle and adapted to be moved by the operator's hand which grasps said handle, said lever being adapted to actuate said
 45 holder to move said wax out of contact with said tool.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

ZOTIQUE BEAUDRY.

Witnesses:

LOUIS A. JONES,
 SADIE V. McCARTHY.