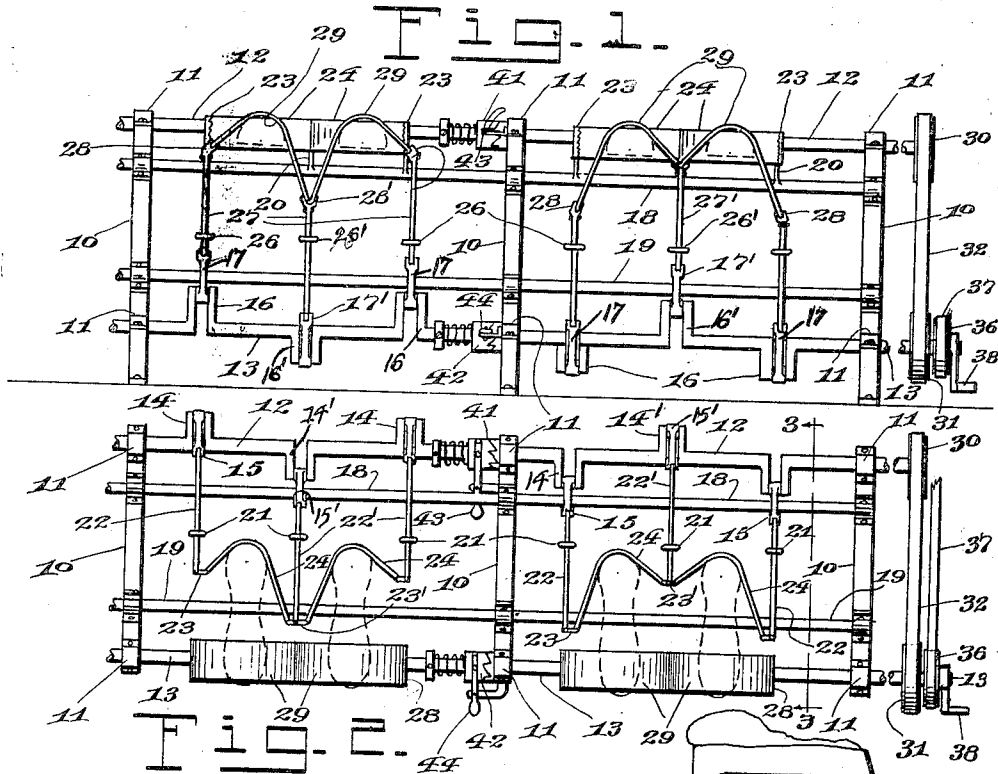
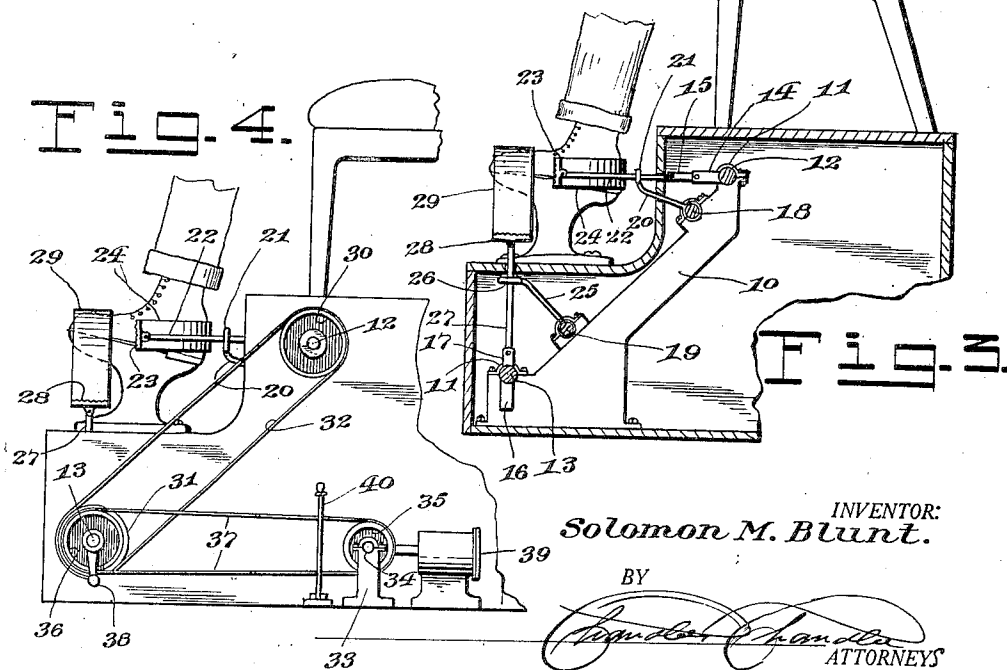


S. M. BLUNT.
SHOE BLACKING MACHINE.
APPLICATION FILED DEC. 10, 1920.

1,430,786.

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UNITED STATES PATENT OFFICE.

SOLOMON M. BLUNT, OF PLATEAU, ALABAMA.

SHOE-BLACKING MACHINE.

Application filed December 10, 1920. Serial No. 423,754.

To all whom it may concern:

Be it known that I, SOLOMON M. BLUNT, a citizen of the United States, residing at Plateau, in the county of Mobile, State of Alabama, have invented certain new and useful Improvements in Shoe-Blacking Machines; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to new and useful improvements in shoe blacking machines and particularly to mechanically operated shoe blacking machines.

One object of the invention is to provide a machine of this character which effectively operates to polish the toes and heels of shoes, and which is capable of operation by hand or motive power.

Another object is to provide a device of this character by means of which a number of shoes may be polished at the same time.

Other objects and advantages will be apparent from the following description when taken in connection with the accompanying drawings.

In the drawings:

Figure 1 is a front elevation of the machine showing the mechanism.

Figure 2 is a top plan view of the same.

Figure 3 is a vertical transverse sectional view through the mechanism on the line 3-3 of Figure 2.

Figure 4 is an end view of the machine showing the driving wheels and belts.

Referring particularly to the accompanying drawings 10 represents a plurality of supports carrying the bearings 11 in which are rotatably supported the shafts 12 and 13. The former of the shafts is located adjacent the upper ends of the supports, while the latter is located adjacent the lower portions thereof. The shaft 12 is formed with a plurality of cranks 14 and 14' to which are pivotally connected the pitmen 15 and 15'. The shaft 13 is similarly formed with an equal number of cranks 16 and 16', and pivotally connected to these cranks are the pitmen 17 and 17'. Secured to the supports, and extending in longitudinal parallel relation to the shafts 12 and 13, are the stationary rods 18 and 19, the former being located forwardly of and slightly below the plane of the shaft 12, while the rod 19 is located above the shaft 13 and slightly in-

wardly thereof. On the rod 18 are mounted obliquely extending arms 20, each having an eye 21 formed in its outer end for the slidable reception of the link 22 which is pivotally connected to a pitman 15. On the outer end of each link 22 is carried a clamp 23 for holding one end of the heel polishing cloth 24, the other end of said cloth being held by the clamp of the next adjacent link. It will be noted that the pitmen 15 and 15' and the links 22 reciprocate forwardly and rearwardly in a horizontal plane to draw the cloth 24 backwardly and forwardly against the heel of the shoe.

Mounted on the rod 19 are the obliquely extending arms 25, formed with the outer terminal eyes 26 and 26' for the slidable reception of the link 27 and 27', which are pivotally connected to the pitmen 17 and 17'. It will be noted that the pitmen 17 and 17' and the links 27 and 27' reciprocate vertically, and on the outer end of each of the links 26 is a clamp 28 for holding one end of the toe polishing cloth 29. This arrangement permits the drawing of the cloth 29 backwardly and forwardly across the toe of the shoe.

Pivotally connected to each pitman 15' is a link 22', carrying on its outer end a clamp 23' for engagement with the intermediate portion of the cloth 24. It will be noted that the cranks 14 are arranged to move forwardly and backwardly, in unison, and in the same direction, while the crank 14' moves simultaneously therewith, but in the opposite direction. Thus, as the links 22 move forwardly, the link 22' will move rearwardly, with the result that the outer ends of the cloth 24 will be drawn forwardly by the backward pull of the link 22', on the intermediate portion of the cloth. The two shoes of the customer are placed on the foot-rests R, and by the above described action of the parts, the portions of the cloth 24, between the clamps 23 and 23', will be drawn back and forth on the rear or counters of the shoes.

Similarly the cranks 16 and 16' are connected, by means of the links 17 and 17', to the ends and intermediate portions of the toe polishing cloth 29, respectively, and operate to draw the portions of the cloth which lie between the clamps 28 and 28', the latter of which is carried by the link 17', to back and forth across the toes of the two shoes of the customer.

On one end of the shaft 12 is mounted a belt wheel 30, and on the corresponding end of the shaft 13 is mounted a belt wheel 31. Engaged around these wheels is a drive belt 32. Mounted on a suitable support 33 is a shaft 34, and mounted on this shaft is a belt wheel 35, the same being in line with the wheel 36 to be driven by the belt 37, said wheel 36 being mounted on the shaft 13, adjacent the wheel 31. On the shaft 13, outwardly of the wheel 31, is a crank handle 38, by means of which the shafts 12 and 13 may be driven manually. If, however, the shafts are to be driven by motive power, the shaft 34 constitutes the crank shaft of the engine 39. A belt shifting device 40 is mounted for shifting the belt 37.

Each of the shafts 12 and 13 is divided at the center, and located at such points are the clutches 41 and 42, shiftable by means of the levers 43 and 44, whereby when only a portion of the apparatus is needed, the other portion may be thrown out of gear and remain idle.

What is claimed is:

1. A shoe polishing machine including drive shafts, foot rests, polishing cloths, and means on the shafts and operatively con-

nected with the ends and intermediate portions of the cloths for simultaneously drawing the cloths backwardly and forwardly across a pair of shoes on the foot rests.

2. A shoe polishing machine including a pair of drive shafts, oppositely directed cranks on the shafts, longitudinal supports between the shafts, brackets on the supports, polishing cloths, and pitmen connected with the cranks and the ends and intermediate portions of the cloths, and slidable through the brackets to reciprocate the cloths across a pair of shoes.

3. A shoe polishing machine including a pair of drive shafts each having oppositely directed cranks, longitudinal supports between the shafts, brackets on the supports, pitmen connected with the cranks, links connected with the pitmen and slidable through the brackets, polishing cloths, and clamps on the links, connected with the ends and intermediate portions of the cloths.

In testimony whereof, I affix my signature, in the presence of two witnesses.

SOLOMON M. BLUNT.

Witnesses:

W. P. SMITH,
PAUL CODE.