J. A. PARENT.

SHOE SHINING MACHINE.

APPLICATION FILED FEB. 14, 1921.

1,415,689. Patented May 9, 1922.

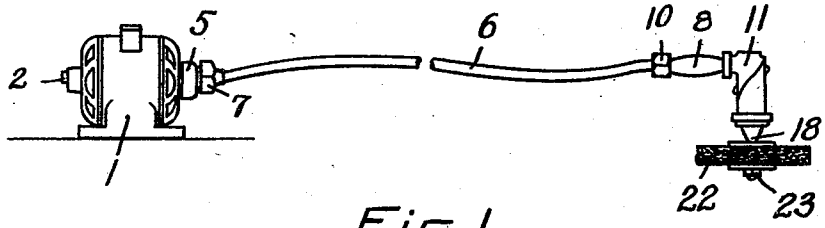


FIG. 1.

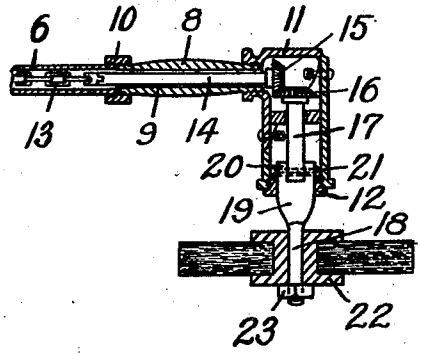


FIG. 2.

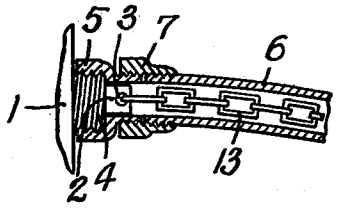


FIG. 3.

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JOSEPH ARTHUR PARENT, OF MONTREAL, QUEBEC, CANADA.

SHOE-SHINING MACHINE.

1,415,689. Specification of Letters Patent. Patented May 9, 1922.

Application filed February 14, 1921. Serial No. 444,816.

To all whom it may concern:

Be it known that I, JOSEPH ARTHUR PARENT, a British subject, shoemaker, residing at #175 St. Ferdinand Street, in the city of Montreal, in the Province of Quebec, in the Dominion of Canada, have invented certain new and useful Improvements in Shoe-Shining Machines, and I do hereby declare that the following is a full, clear, and exact description of the same.

The present invention relates to improvements in polishing machines, and its main object is to provide a mechanically driven shoe polishing device that can be readily operated by hand.

The invention will be understood with the aid of the following description and accompanying drawing, in which:—

Figure 1 is a side elevation of the polishing device, showing the same connected to a motor.

Figure 2 is an enlarged side elevation view of the polishing device, the casing being shown in section to disclose the inner arrangement.

Figure 3 is an enlarged sectional view of a portion of the connecting means to the motor shaft.

Like numerals of reference indicate corresponding parts in each figure.

Referring to the drawings, 1 is an electric motor having the usual shaft 2, one end of which is provided with a hole 3. The bearing 4 is threaded to receive a socket 5, said socket being connected to a flexible tube 6 by means of the nipple 7. The other end of said flexible tube 6 is connected to one end of a handle 8, which is bored throughout at 9, by means of the nipple 10. On the other end of said handle 8 is threaded a rectangular casing 11 which is preferably made of two pieces suitably secured together and in which is secured the bushing 12.

On one end of the motor shaft 2, is secured, in the hole 3, the chain 13, said chain projecting through the flexible tube 6. Adjacent the connection of the handle 8 and the tube 6, the chain is secured to a shaft 14 which is suitably journalled in the bore 9 of the handle 8, said shaft projecting inside the casing 11 and having mounted on its end a bevelled pinion 15. The pinion 15 co-acts with the pinion 16, which is mounted on the shaft 17, said shaft 17 being disposed at right angle to the shaft 14 and being journalled in suitable bearings in said casing 11. On the end of the shaft 17 opposite the pinion 16 is secured the shaft 18 which has an enlargement 19 that fits in the bushing 12, the inner projecting end of said enlargement being provided with the lugs 20. 21 is a pin adapted to project through said lugs 20 and the end of the shaft 17, thus securing the two shafts 17 and 18 together. On the outer projecting end of the shaft 18 is mounted the brush 22, and 23 is a nut adapted to rigidly secure said brush on the shaft.

On operating the motor 1, the shaft 2 will revolve the chain 13 which in turn will rotate the shaft 14, the pinions 15 and 16, and the shafts 17 and 18 and the brush 22.

The device is held by the handle 8 and the brush 22 should be applied to the boot or shoe lightly. The device being connected to the driving motor by a flexible tube, it can readily be manipulated, as it is light in weight.

What I claim as my invention is:—

1. In a brushing machine, the combination of a portable casing having a handle rigidly secured to it for moving it about; a shaft section journaled within said casing; driving means connected to one end of said shaft section; a bushing in said casing; a second shaft section disposed within the casing in alinement with the first section and having an enlargement which fits in said bushing and is provided with a pair of spaced lugs between which the other end of said first section is interposed, the second section projecting outwardly of said casing; a pin passing through said lugs and the interposed end of the first section to connect the two sections together; and a brush carried by the projecting end of the second section.

2. In a brushing machine, the combination of a portable casing; a handle rigidly secured to said casing for moving it about and having a longitudinal bore which opens at its inner end into the casing and at its outer end through the outer end of the handle; a shaft journaled in said bore; a flexible driving element connected to the outer end of said shaft; a shaft section journaled within the casing; intermeshing gears connecting the inner end of the handle shaft and the adjacent end of said shaft section; a bushing in said casing; a second shaft section disposed within the casing in alinement

with the first section and having an enlargement which fits in said bushing and is provided with a pair of spaced lugs between which the other end of said first section is interposed, the second section projecting outwardly of said casing; a pin passing through said lugs and the interposed end of the first section to connect the two sections together; and a brush carried by the projecting end of the second section.

Signed at Montreal, Quebec, Canada, this 15th day of January, 1921.

JOSEPH ARTHUR PARENT.

Witnesses:

C. PATENAUDE,

G. BEAUDOIN.