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R. ANDERSON, SR.

SHOE SHINING MACHINE

Filed August 15, 1924

Fig. 1.

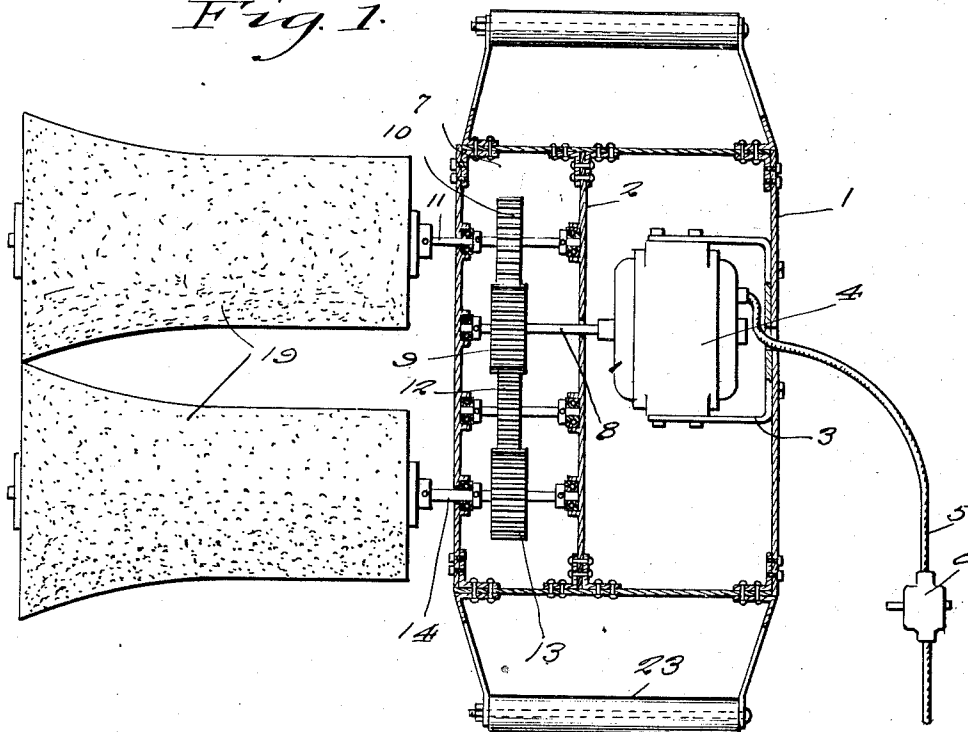


Fig. 4.

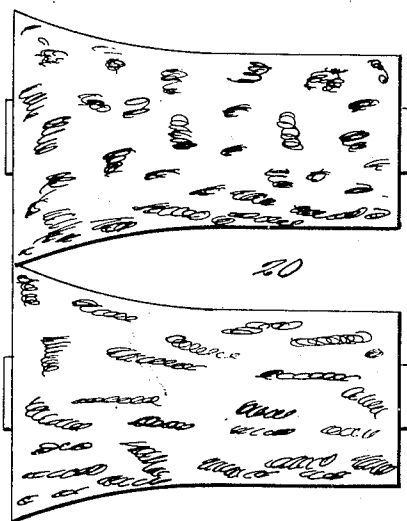


Fig. 2.

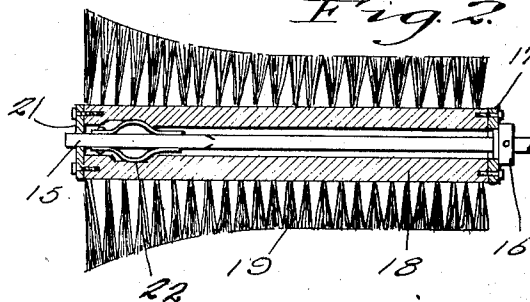
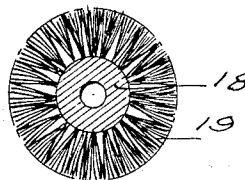


Fig. 3.



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WITNESS:

UNITED STATES PATENT OFFICE.

RANDOLPH ANDERSON, SR., OF ST. LOUIS, MISSOURI.

SHOE-SHINING MACHINE.

Application filed August 15, 1924. Serial No. 732,297.

To all whom it may concern:

Be it known that I, RANDOLPH ANDERSON, Sr., a citizen of the United States, residing in the city of St. Louis and State of Missouri, have invented new and useful Improvements in Shoe-Shining Machines, of which the following is a specification.

My present invention has reference to electrically operated apparatus for brushing and polishing shoes.

With the above broadly stated object in view and many others which will appear as the nature of the invention is better understood, reference is to be had to the drawings which accompany and which form part of this application.

In the drawings:—

Figure 1 is a side elevation of the shoe brushing apparatus, the casing therefor being in section.

Figure 2 is an approximately central longitudinal sectional view through one of the rotary brushes employed.

Figure 3 is a transverse sectional view therethrough.

Figure 4 is a plan view of the rotary cloth polishing brushes employed.

By reference to Figure 1 of the drawings it will be noted that I make use of a substantially rectangular frame or casing 1 divided by a partition 2 into two compartments. In one of the compartments there is fixed a substantially U-shaped bracket 3, and in this bracket there is secured an electrically operated motor 4. The cables from the motor are enclosed in the usual manner, and have a plug thereon to be inserted in the socket of a house current. The cable is indicated by the numeral 5, and the wires therein are controlled by a switch 6.

In the outer compartment, indicated for distinction by the numeral 7, there is journaled in suitable bearings the motor shaft 8. The motor shaft has keyed thereon a pinion 9 in mesh with a second pinion 10 that has its shaft 11 journaled in suitable bearings in the compartment 7 and projecting there-through. The pinion 9 is also in mesh with an idler pinion 12 fixed on a shaft suitably journaled in the said compartment 6 and the idler is in mesh with a pinion 13 whose shaft 14 is journaled in bearings in the compartment 7 and projects therethrough. The shafts 10 and 14 have their outer ends square,

as at 15, Figure 2. The shafts, at a suitable distance from their ends 15, are provided with fixed collars 16 that contact with plates 17 on the inner ends of the wooden cores 18 of both the bristle carrying brushes 19 and the fabric wound brushes 20. The outer face of each of the brushes has on its core a plate 21 provided with a squared opening to receive the squared end 15 of the shafts 11 and 14.

The bore of each of the cores 18, adjacent to the outer ends thereof have their walls provided with opposite depressions or a continuous depression for the reception of the bowed central portions of springs 22, one of the straight ends of the said springs being fixed to the opposite flat faces of the cross sectionally squared portions 15 of the shafts 11 or 14. By this arrangement it will be noted that the brushes are held on the shafts so that it is necessary to exert a direct outward pull thereon to remove the brushes from the shafts. The bristle brushes are, of course, employed for removing the dirt and dust from the shoes, while the fabric brushes 20 are employed for polishing the shoes.

The casing or frame 1, at its ends, has secured thereto inwardly inclined outwardly directed plates between which there are pivotally secured handle members 23 whereby the device may be conveniently handled by the operator. The operation of the improvement will, it is thought, be obvious, as when the current is directed to the motor the brushes will be revolved toward each other incident to the arrangement of the pinion 12 in the train of gears and after the bristle brushes are used, the same are detached from the shafts and the fabric brushes 20 are positioned on the shafts for the final shining operation of the shoes.

It is believed that the foregoing description, when taken in connection with the drawings will fully set forth the simplicity of the construction and the method of operating my improvement. It is thought necessary to add, however, that I am not to be restricted to the structural features herein set forth but may make such changes therefrom as fall within the scope of what I claim.

Having described the invention, I claim:—

A portable shoe shining apparatus including a casing having handles thereon, shafts supported by and projecting through the

casing, electrically controlled operating means for the shafts to cause said shafts to turn in the same direction, rotary brushes each having a hollow core to receive the shafts therein, means limiting the longitudinal movement of the brushes on the shafts, in an inward direction, means on the outer ends of the cores for causing the brushes to rotate with the shafts, and depressible spring clutch means carried by the shafts engaging the cores for removably locking the brushes on the shafts. 10

In testimony whereof I affix my signature.

RANDOLPH ANDERSON, SR.