Nov. 1, 1927. 1,647,393

C. C. CAREK

SHOE SHINING MACHINE

Filed Jan. 21, 1927

Fig. 1.

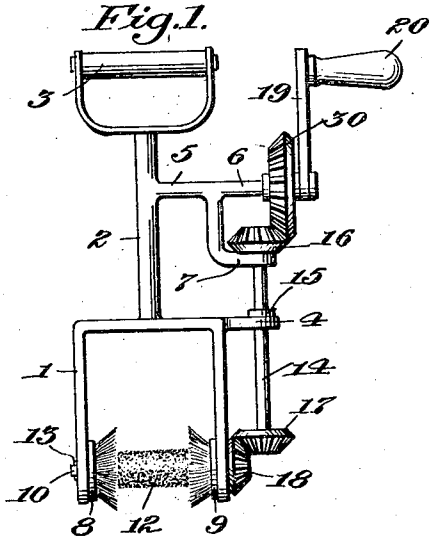



Fig. 2.

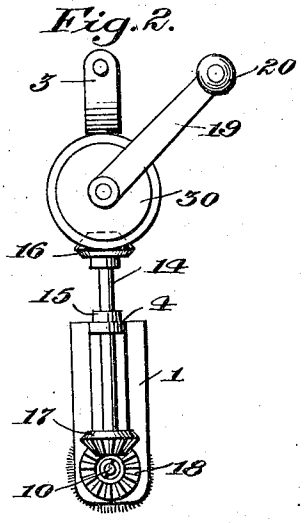



Fig. 3.

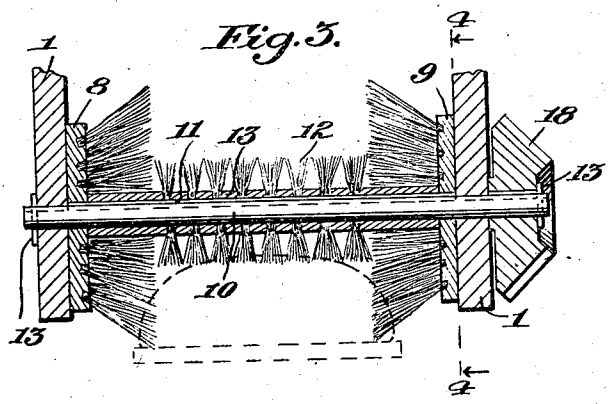
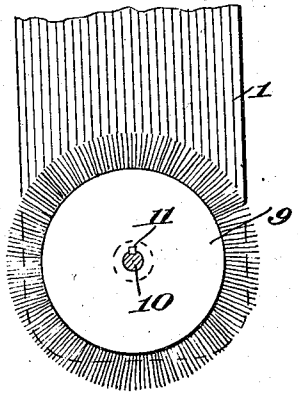



Fig. 4.




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# UNITED STATES PATENT OFFICE.

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## SHOE-SHINING MACHINE.

Application filed January 21, 1927. Serial No. 162,495.

This invention relates to improvements in portable hand operated shoe shining machines.

An object of the invention is to provide a portable hand operated shoe shining machine which may readily be packed in a small bag and transported from place to place.

A further object of the invention is to provide an improved portable hand operated shoe shining machine which will be highly efficient in use and quite inexpensive to manufacture.

Other objects will appear as the description proceeds.

In the accompanying drawings which constitute a part of my application,

Figure 1 is a front elevation of my improved portable hand operated shoe shining machine;

Figure 2 is a side elevation of the shoe shining machine;

Figure 3 is a sectional view taken through the lower portion of the machine frame and the shining brushes.

Figure 4 is a sectional view taken on the line 4—4 of Figure 3.

Like characters of reference are used throughout the following specification and the accompanying drawings to designate corresponding parts.

My improved portable hand operated shoe shining machine comprises an inverted U-shape frame 1, a centrally disposed body member 2, and handle member 3 formed at the upper end of the said body member. An arm 4 is formed integrally with the frame 1, and extends laterally therefrom, as clearly shown in Figure 1 of the drawings.

A branched arm 5 is also formed integrally with the body member 2, and extends laterally therefrom, the branches 6 and 7 thereof lying in a vertical plane with the arm 4.

A pair of spaced oppositely disposed inwardly extending brushes 8 and 9 are detachably secured to a shaft 10 mounted transversely of the frame 1 adjacent its lower end as by means of the key 11. A brush 12 carried by the sleeve 13 is also carried by the shaft 10, intermediate the brushes 8 and 9, and is likewise keyed to the said shaft. The brush 12 is adapted to shine or polish the upper surface of a shoe, while the brushes 8 and 9 are adapted to polish the opposite sides of a shoe. The shaft 10 will be retained in place by means of cotter pins 13, or other suitable means.

A driving shaft 14 is rotatably mounted in the arm 4, bearing bushing 15 and branch 7, and carries the bevel gears 16 and 17 at its upper and lower ends, respectively. The bevel gear 17 intermeshes with a similar bevel gear 18 keyed to the adjacent outer end of the shaft 10, on the outside of the frame 1.

A driving gear 30 is rotatably mounted on the outer end of the branch 6, and meshes with the bevel gear 16. An operating arm 19 with attached handle portion 20, is provided for rotating the gear 30, and operates through the gear 16, driving shaft 14, gear 17, and gear 18 to rotate the shining or polishing brushes 8, 9 and 12.

The mode of operation will be readily understood, since it is only necessary to apply polish to the shoe, and then hold the shining machine with one hand placing the brushes in engagement with the shoe, and rotating the operating arm 19 with the other hand. Various degrees of pressure may be applied to the machine, so that a high polish or shine may be given the shoe.

Many minor changes in detail of construction may be resorted to without departure from the spirit of the invention.

Having thus described my invention what I claim as new and desire to secure by Letters Patent of the United States is:

1. A portable hand operated shoe shining machine comprising an inverted U-shape frame, and a handle therefor, a body portion intermediate said frame and handle, a shaft mounted transversely of said frame, removable brushes carried by said shaft, a branched arm carried by said body portion, gearing carried by said branched arm, a gear on the end of said shaft, and means operatively connecting said gearing and gear.

2. A portable hand operated shoe shining machine comprising an inverted U-shape frame, a body portion formed integrally therewith and a handle at the opposite end of said body portion, a shaft mounted transversely of said frame, spaced oppositely disposed inwardly projecting brushes carried

by said shaft, an intermediate brush carried by said shaft having its bristles extending at substantially right angles to the bristles in said first mentioned brushes, a key for securing all of said brushes to said shaft, a branched arm carried by said body portion, gearing carried by said branched arm, a gear on the end of said shaft, and a vertically disposed geared shaft carried by an arm on said frame and said branched arms for connecting said gearing and gear.

In testimony whereof I affix my signature.

CHARLES C. CAREK.