S. FOX.

SHOE POLISHING MACHINE.

APPLICATION FILED OCT. 16, 1917.

1,284,640.

Patented Nov. 12, 1918.

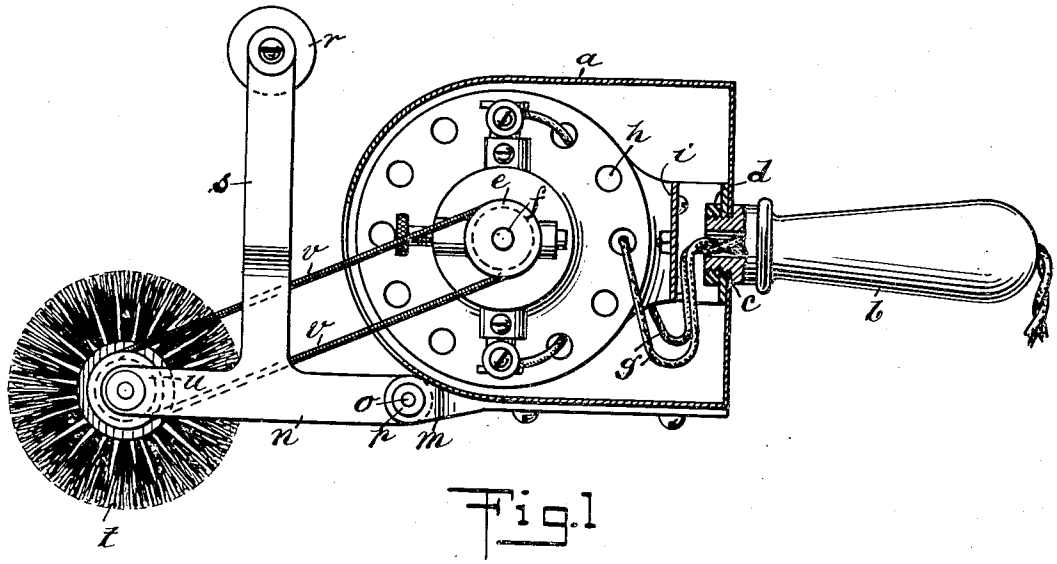


Fig. 1

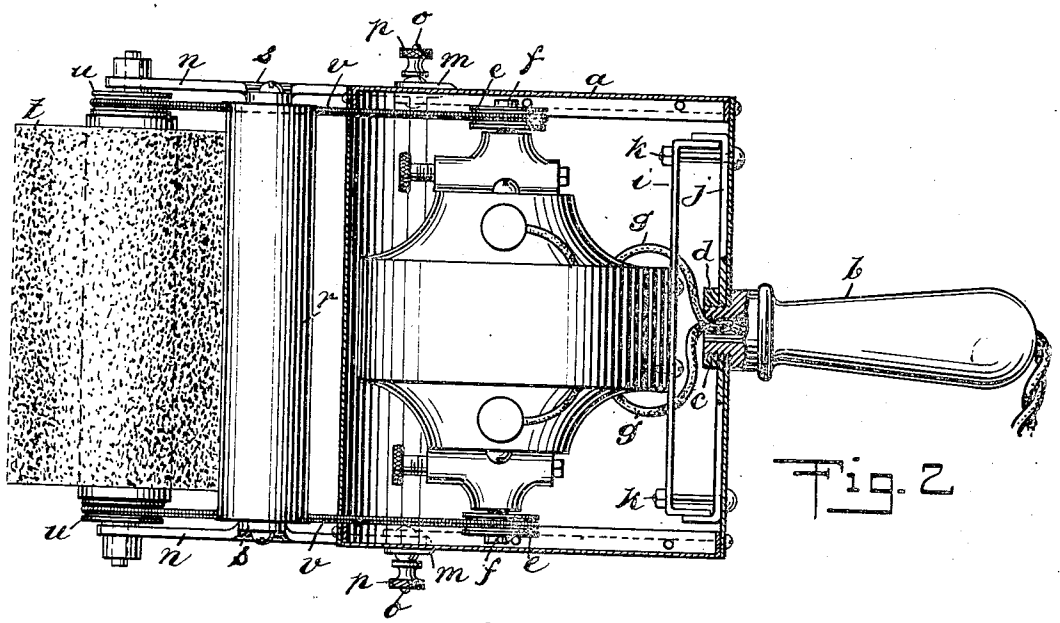


Fig. 2

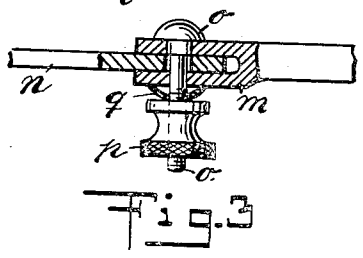


Fig. 3

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SHOE-POLISHING MACHINE.

1,284,640. Specification of Letters Patent. Patented Nov. 12, 1918.

Application filed October 16, 1917. Serial No. 196,810.

To all whom it may concern:

Be it known that I, SAMUEL FOX, a citizen of the United States, and resident of New York, in the county of Bronx and State of New York, have invented certain new and useful Improvements in Shoe-Polishing Machines, of which the following is a specification.

This invention relates to a machine for polishing shoes in which a motor is carried in a casing, and a cylindrical brush is rotated by the motor.

The invention is designed to provide means for absorbing the vibrations communicated to the casing by the motor when running at a high rate of speed.

The invention comprehends means for disposing the terminal wires of the motor in a hollow handle connected to the casing and adapted to grip the device when in action.

An object of the invention is to provide a pair of arms to swingingly mount the brush, and a pair of yielding belts connecting the motor with the brush for taking up any adjustment of the brush relative to the motor.

The novel features of the invention are more fully described in the following specification and claims and illustrated in the accompanying drawing in which:

Figure 1 represents a sectional side elevation of a machine embodying this invention.

Fig. 2 is a horizontal longitudinal section of the same.

Fig. 3 is a detail horizontal section of a jointed arm.

In this drawing the letter *a* designates a casing having a hollow handle *b* with a threaded end *c* projecting into the casing. The end is engaged by a nut *d* for rigidly holding the handle to the wall of the casing. An electric motor having a pulley *e* on each side is arranged in the casing. These pulleys are mounted on the motor shaft *f* of the armature and revolve when the motor is in action. The motor is provided with the usual terminals *g* passing through holes *h* of the motor frame and through the hollow handle *b* to a socket or other source of electric energy as is well known.

The motor is mounted on a spring support *i* having bent ends to engage the upturned ends of a strap *j* both being secured by bolts *k* to the wall of the casing. This construction practically constitutes a resilient device to take up any jars or shocks given to the motor, and otherwise transmitted to the casing.

A pair of bifurcated ears or lugs *m* one being opposite the other, project from the lower portions of the casing. Each ear is engaged by an arm *n* located on each side of the casing. A bolt *o* extends through eyes in the ear and arm, and a nut *p* coacting with a spring *q* connects the parts together. The bifurcated ends of the ear will frictionally engage the tongue of the arm when the nut is tightened, thus preventing unnecessary movement of the arm. A handle *r* is mounted on two vertical uprights *s* forming contiguous portions of the arms.

A cylindrical brush *t* having a pulley *u* at each end is rotatively mounted on a shaft fixed between the forward portions of the arms. Elastic belts *v* in engagement with the pulleys *e* and *u* connect the motor with the brush. These belts are preferably made of coiled spring wire and take up any slack between the motor and the brush caused by the adjustment of the arms *n* or otherwise.

As indicated in the drawing, the arms *n* can swing about the bolt *o*, to set or position the brush at an angle to glide over any curvature of the shoe. The device is portable being manipulated by the handle *b*, while the position of the brush relative to the shoe can be adjusted by the handle on the arms.

I claim:—

1. A shoe polishing machine comprising a casing provided with an electric motor, a pair of lugs projecting from the casing one being opposite the other, arms swingingly pivoted to the lugs, means for adjusting the pivots to frictionally hold the arms in a fixed position, a shaft secured between the arms, a tool arranged on the shaft, and belts connecting the motor with the tool.

2. A shoe polishing machine comprising a casing provided with an electric motor, a pair of bifurcated lugs projecting from the lower portion of the casing one being oppo-

site the other, a pair of arms swingingly pivoted to engage the bifurcations, said arms having vertical uprights for mounting a handle therebetween, nuts for adjusting the pivots to frictionally hold the arms in a fixed position, a shaft secured between the arms, a tool arranged on the shaft, and belts connecting the motor with the tool.

Signed at New York in the county of New York and State of New York this 15th day of October A. D. 1917.

SAMUEL FOX.

Witnesses:
GRACE DE VOE,
WILLIAM MILLER.