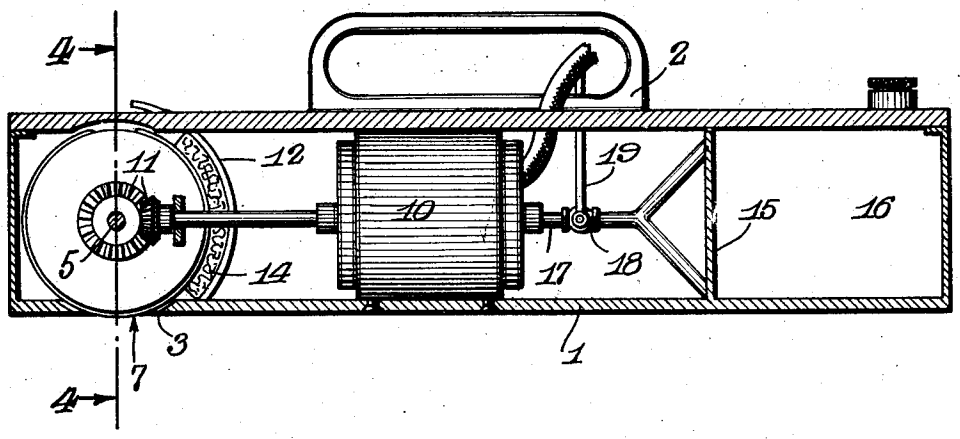
May 20, 1930. B. W. ERGLE 1,759,104

ELECTRIC HAND SANDING MACHINE

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Fig. 1.



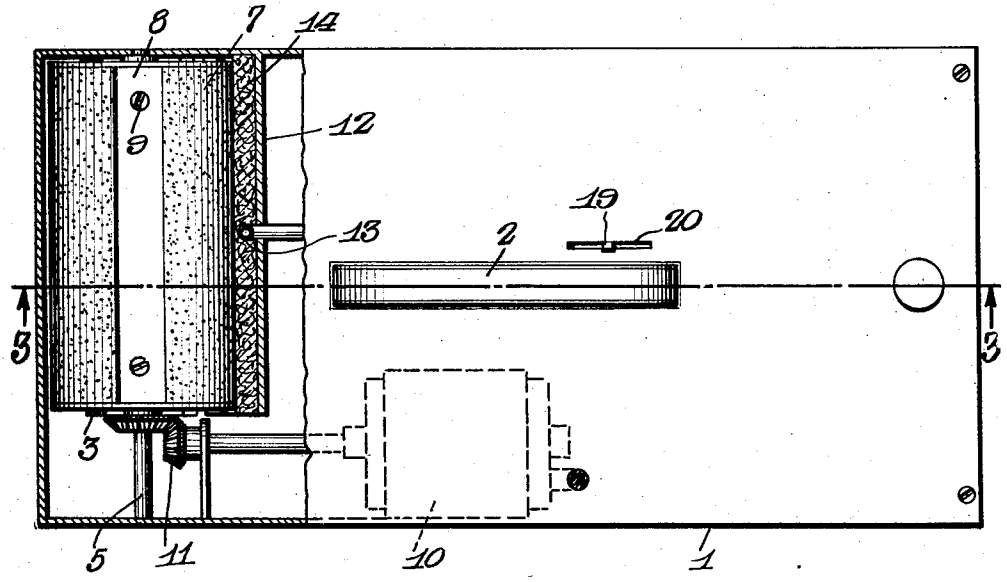


Fig. 2.

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Fig. 3.

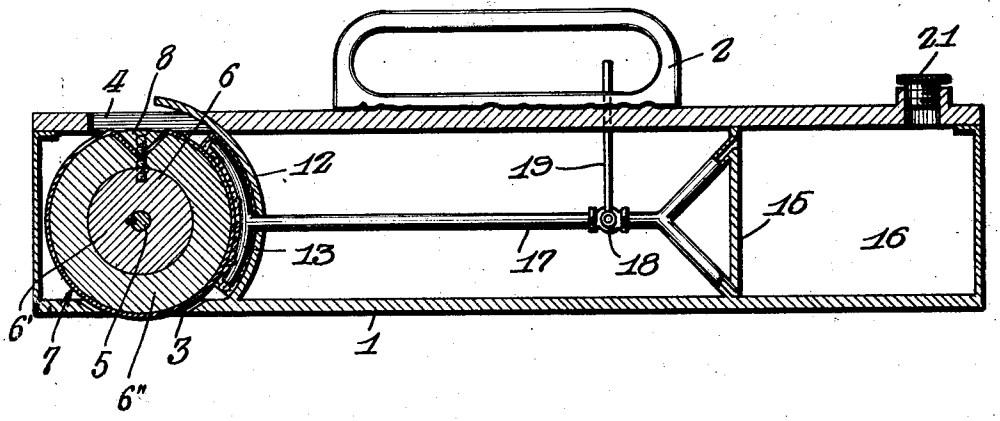
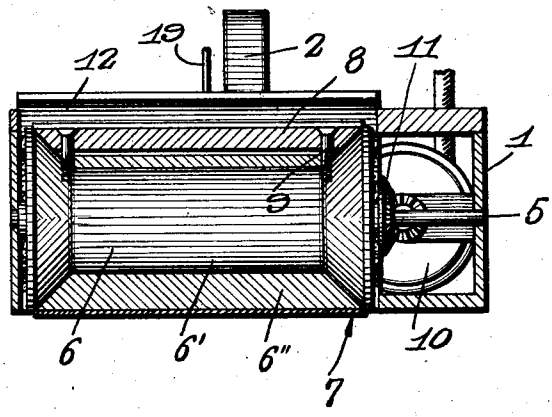


Fig. 4.



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UNITED STATES PATENT OFFICE

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ELECTRIC HAND SANDING MACHINE

Application filed October 31, 1928. Serial No. 316,206.

This invention relates to an electric hand sanding machine for use on Duco and other lacquer paint, the general object of the invention being to provide a frame having a handle thereon with a motor driven roller in the frame and having a part projecting therefrom, said roller being covered with sand paper and means for supplying water to the roller so that the paper will be kept moist as the roller is revolving against the surface to be sanded.

Another object of the invention is to provide a shield adjacent the roller which protects the operator from the water thrown off by the roller and a sponge arranged between the shield and roller to which the water supply leads.

A still further object of the invention is to provide a hand operated valve for controlling the flow of water to the sponge.

This invention also consists in certain other features of construction and in the combination and arrangement of the several parts, to be hereinafter fully described, illustrated in the accompanying drawings and specifically pointed out in the appended claim.

In describing the invention in detail, reference will be had to the accompanying drawings wherein like characters denote like or corresponding parts throughout the several views, and in which:—

Figure 1 is a vertical sectional view through the device.

Figure 2 is a plan view, with parts in section.

Figure 3 is a section on line 3—3 of Figure 2.

Figure 4 is a section on line 4—4 of Figure 1.

In these views, the numeral 1 indicates a casing which has a handle 2 on its top and which has an opening 3 in its bottom adjacent one end thereof and an opening 4 in its top which is arranged over the opening 3. A shaft 5 has its ends journaled in the sides of the casing adjacent the end which is formed with the openings 3 and 4 and a roll 6 is fastened to the shaft. The roll is of less length than the shaft, as shown in Figure 2, and said roll is formed with a spool-like part 6′ which is preferably of wood and which is covered with rubber or the like, as shown at 6″ and a sheet of sandpaper 7 is placed around the rubber part and is held in place by a triangular-shaped strip 8 of rubber or metal which fits in a groove in the rubber part and clamps the edges of the sheet between itself and the walls of the groove. This strip is held in place by the screws 9. A motor 10 is placed in the casing and has its shaft connected with the shaft 5 by the beveled gears 11 so that the roller is driven from the motor. As shown in Figures 1 and 3, the roller projects slightly through the opening 3 so that the sandpaper thereon will contact a surface against which the bottom of the casing is placed. An arcuate-shaped shield 12 is placed in the casing in rear of the roller and extends from the bottom of the casing through the opening 4 in the top thereof. A curved perforated pipe 13 is held against the front part of the shield and a sponge 14 or other suitable absorbent material is placed in the space between the shield and the roller and encloses the pipe.

A partition 15 is placed in the casing and divides the same into a reservoir 16, a pipe 17 leading from the reservoir through the shield and being connected with the curved pipe so that water or other liquid in the reservoir will flow into the curved pipe and through the perforations therein and thus saturate the sponge and this sponge will moisten the sandpaper on the roll. A valve 18 is arranged in the pipe 17 and the handle 19 of the valve extends through a slot 20 formed in the top of the casing adjacent the handle so that one finger of the hand grasping the handle can be used for opening and closing the valve. The reservoir is formed with a filling opening which is closed by a screw plug 21.

From the foregoing it will be seen that the casing can be held by one hand of the operator, with the projecting part of the roll engaging the surface to be sanded and by opening the valve, water will be supplied to the sponge so that the paper will be moistened. It will, of course, be understood that a special form of sandpaper is used on the roller and

this paper is more efficient in treating Duco and similarly coated surfaces when moist. The shield prevents the water thrown off by the roller from striking the operator. The roller can be made interchangeable with a polishing roller, if desired.

It is thought from the foregoing description that the advantages and novel features of the invention will be readily apparent.

It is to be understood that changes may be made in the construction and in the combination and arrangement of the several parts, provided that such changes fall within the scope of the appended claim.

What I claim is:—

A device of the class described comprising a casing having an opening in its bottom adjacent one end thereof, a sanding roller journaled in the casing with a portion extending through said opening, the top of the casing also having an opening therein arranged above the first opening, a shield arranged in rear of the roller and having one end connected with the bottom of the casing and its other end passing through the opening in the top thereof, absorbent material placed between the shield and the roller, a curved perforated pipe in the space between the shield and roller and covered by the absorbent material, a reservoir for containing liquid in the casing, a pipe connecting the reservoir with the curved pipe, a handle on the top of the casing, a valve in the pipe and a handle connected with the valve and passing through the casing at a point adjacent the handle on the casing.

In testimony whereof I affix my signature.

BERTIE W. ERGLE.