May 6, 1924. 1,493,309

J. J. WILSON

FLOOR WAXING AND FINISHING MACHINE

Filed Sept. 24, 1921 2 Sheets-Sheet 1

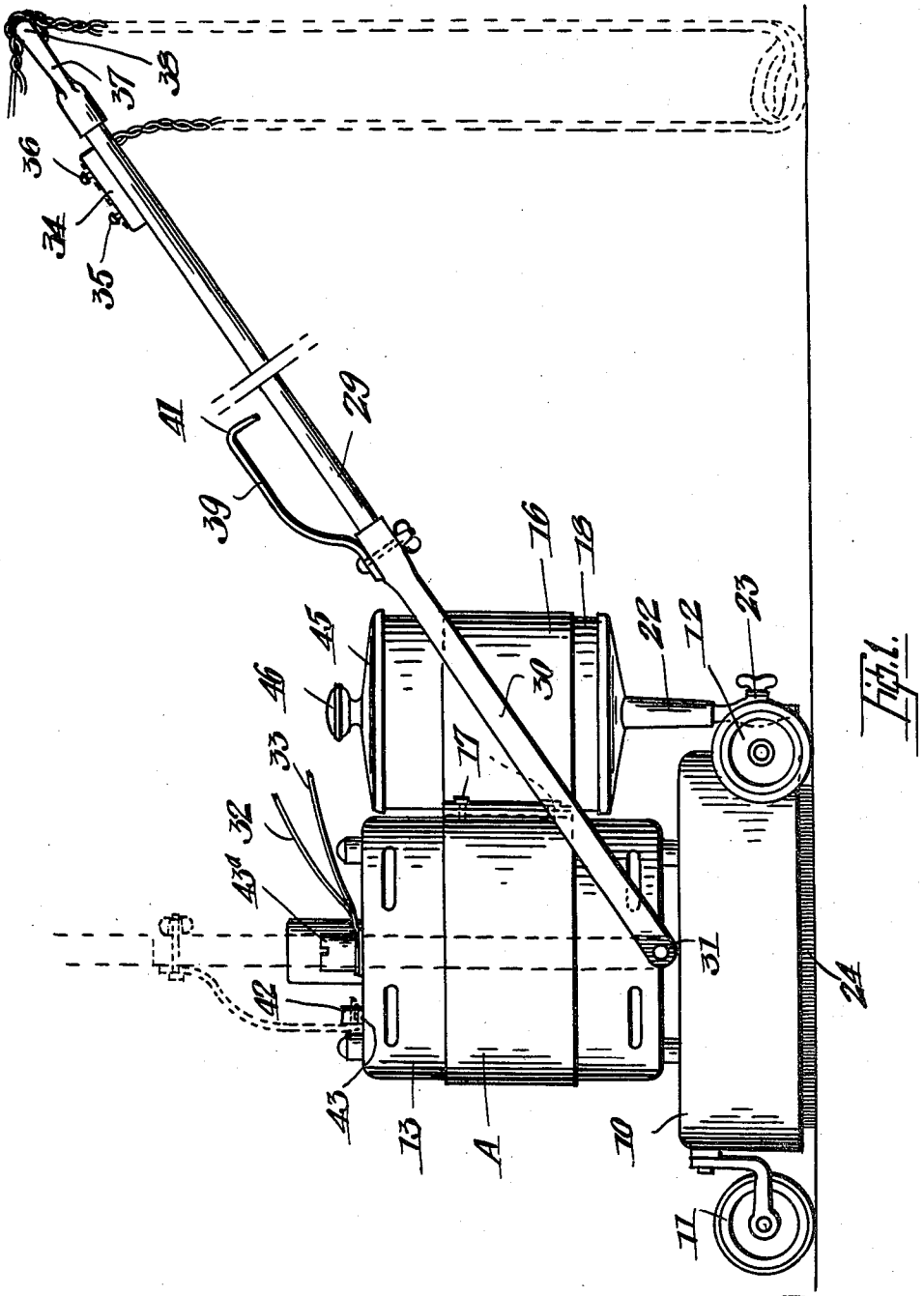


Fig. 1.

INVENTOR
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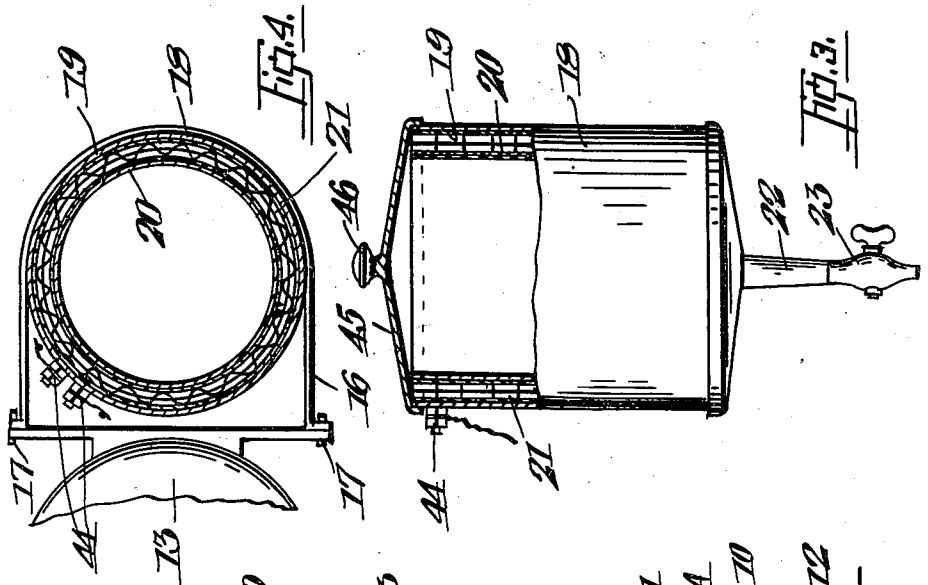
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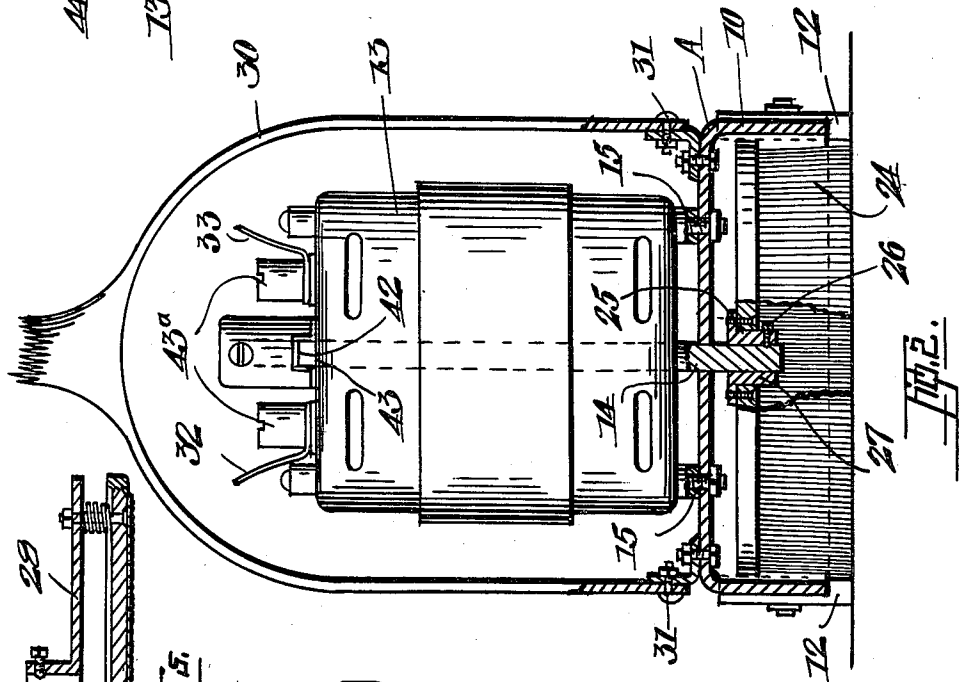
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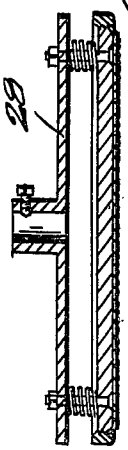
J. J. WILSON

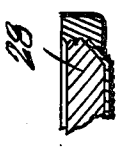
FLOOR WAXING AND FINISHING MACHINE

Filed Sept. 24, 1921 2 Sheets-Sheet 2









INVENTOR
JOSEPH J. WILSON.

BY Peckham Lough & Co
ATTYS.

Patented May 6, 1924. 1,493,309

UNITED STATES PATENT OFFICE.

JOSEPH JAMES WILSON, OF OTTAWA, ONTARIO, CANADA, ASSIGNOR OF ONE-HALF TO JAMES ALEXANDER HENDERSON, OF WESTBORO, ONTARIO, CANADA.

FLOOR WAXING AND FINISHING MACHINE.

Application filed September 24, 1921. Serial No. 502,992.

To all whom it may concern:

Be it known that I, JOSEPH JAMES WILSON, a subject of the King of Great Britain, and a resident of Westboro, city of Ottawa, in the Province of Ontario and Dominion of Canada, have invented certain new and useful Improvements in Floor Waxing and Finishing Machines, of which the following is a specification.

This invention relates to improvements in floor waxing and finishing machines, and the objects of the invention are to provide a simple, efficient, and economically constructed machine for polishing hardwood, marble and linoleum floors, and which can at the same time be easily manipulated and conveyed from one place to another.

A further object is to provide a machine of this character without any complicated parts in its construction to get out of order.

A still further object is to provide a machine of this kind that will carry and heat the wax required and at the same time regulate the flow of the wax to the floor; in short, to provide a self-contained and economical machine that can be operated to produce the most satisfactory results even by a child.

The invention consists essentially of a suitably mounted member provided with rotatable polishing means therein and having mounted thereon a suitable motor having attached thereto a wax container, means for operating the carriage member, means for heating the wax container, and means for operating, lifting and carrying the machine.

With the foregoing and other objects in view, reference is now had to the accompanying drawings, in which like characters of reference indicate corresponding parts in each figure, and in which:

Figure 1 is a side elevation of the machine.

Figure 2 is a vertical section.

Figure 3 is a perspective view partly in section of the wax container.

Figure 4 is a top sectional view of the container showing its attachment to the motor.

Figure 5 is a front elevation of the sand paper carrier.

Figure 6 is a sectional detail of an alternative form of the floor polishing means.

Referring to the drawings:

A is the machine comprising a suitably formed carriage member 10 provided with a front castor wheel 11 attached thereto in any well known manner and two rear wheels 12 adapted to be cast with the machine so as to give free play to the machine without the inconvenience of side wheels which prevents a machine of this kind being satisfactorily operated into corners and the like.

Mounted upon the carrying member 10 is a motor 13 provided with a vertically disposed shaft 14 and securely bolted at 15 to the carriage member and having attached thereto by means of the retaining member 16 bolted to the carriage at 17 the wax container 18 preferably constructed, as here shown, in cylindrical shape of copper and comprising two concentric cylinders 19 and 20 in spaced relationship to each other to receive therebetween the heating coils 21, suitably insulated. 21^a is a heat insulating lining for cylinder 19. The container 18 is formed with a suitable spout or outlet 22 in the bottom thereof adapted to feed the wax to the floor as required, the flow of the wax being controlled by the supply tap 23 in the spout 22. 24 is an annular brush detachable secured at 25 to the vertically disposed shaft 14 by means of a set screw 26 through the bearing 27 in the brush carrier and adapted in operation to work in the wax and thus polish the floor. This brush, when so desired, may be replaced by the carrier 28 adapted to hold sand paper or other means for scraping the floor, as shown in Figure 5.

29 is the operating handle bar pivotally mounted through the fork-shaped member 30 on the carriage 13 at 31. The handle bar 29 is of any suitable material, preferably oak, and made hollow to carry therein the electric wires 32 and 33 and provided with a switch box 34 having switches 35 and 36, one for the motor 13 and the other for the heating coils 21 in the wax container, respectively.

37 is the gripping handle formed with an iron frame and the wooden gripping bar 38. 39 is a lifting and carrying member, one end of which is pivotally secured on the handle bar 29 being bent at right angles at 41 to grip a suitably provided slot 42 on the motor top at 43. The member 39 is adapted for lifting and carrying the machine from place to place, as may be required in an operative position, while in an inoperative position the lifting member 39 is swung around to lie

against the handle bar 29, as shown in Figure 1.

43ª are the rolls on the motor and 44 is a plug in the container for connecting up the electric wires. 45 is the container cap or cover provided with a suitable handle 46. From the arrangement of the electric connections, it will be noted that the brush and the wax container may be operated either separately or collectively by means of the two switches in the switch box 34.

From the foregoing, the operation of my device will be readily understood for waxing and polishing floor. The electric current is applied through the switch box 34 to the heating coils in the container and, on the wax being melted, the brush is then operated and both work together, the wax being fed on to the floor and the brush working it in and polishing the floor.

As many changes could be made in the above construction and many apparently widely different embodiments of my invention within the scope of the claims, constructed without departing from the spirit or scope thereof, it is intended that all matter contained in the accompanying specification and drawings shall be interpreted as illustrative and not in a limiting sense.

What I claim as my invention is:

1. A floor waxing and finishing machine, comprising in combination, a suitably mounted frame, a motor on said frame, a rotary brush detachably mounted on the frame and shaft connected to the motor, a wax container band-secured to the motor and provided with means for discharging melted wax behind the brush, means for electrically heating the container and means for regulating the flow of melted wax from the container.

2. In a floor waxing and finishing machine, substantially as described and in combination a suitable frame, having motor driven polishing means mounted thereon and means for supplying melted wax for the machine, comprising a wax-container, including a pair of concentric cylinders arranged in spaced relationship to one another and adapted to carry therebetween heating coils suitably connected to the source of power, switch means for regulating the current to said coils, valve regulated discharge means for the container cover means for the container.

In witness whereof I have hereunto set my hand in the presence of two witnesses.

JOSEPH JAMES WILSON.

Witnesses:

JAMES A. HENDERSON,

H. M. SANFORD.