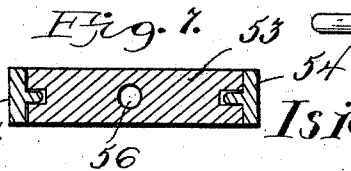
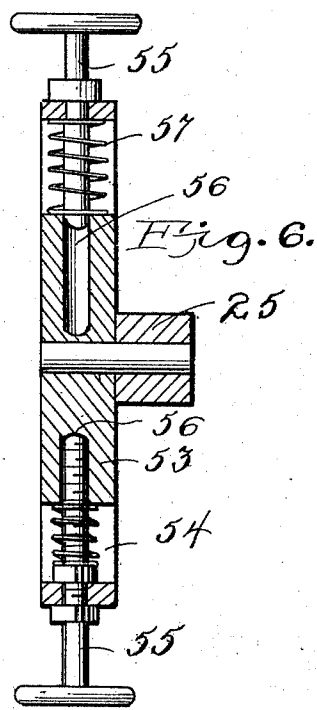
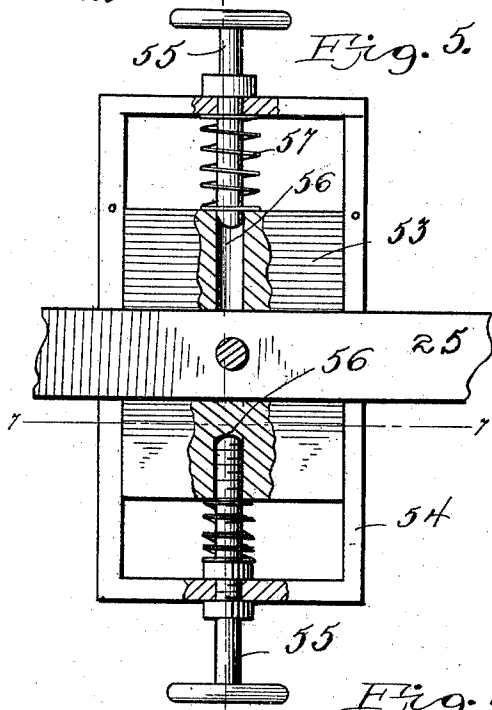
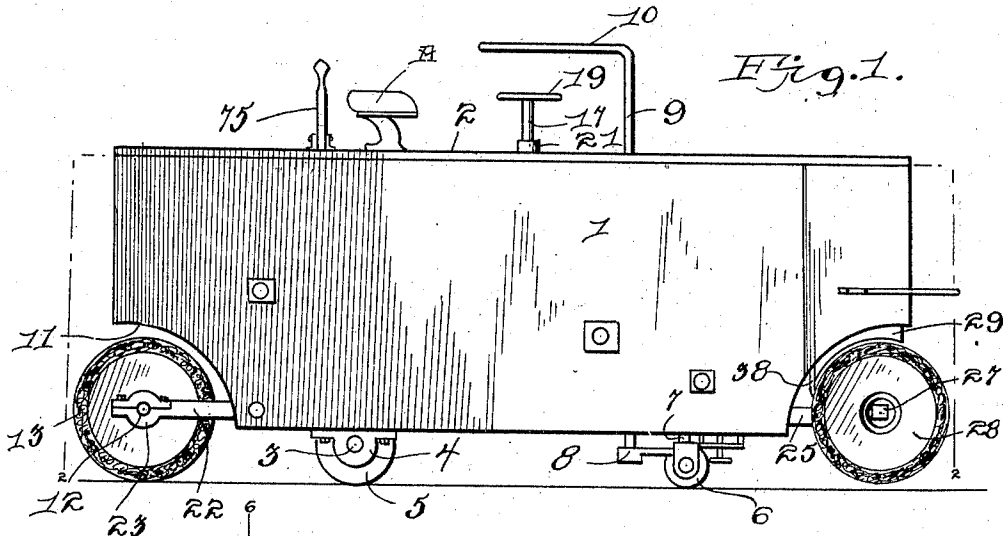


I. B. BARRIRE.
WAXING APPARATUS.
APPLICATION FILED JUNE 19, 1909.

967,156.

Patented Aug. 16, 1910.

3 SHEETS—SHEET 1.



Witnesses
J. W. Wells
H. J. Woodruff

Inventor
Isidore B. Barrire.
By E. E. Vrooman,
his Attorney.

967,156.

I. B. BARRIRE.
WAXING APPARATUS.
APPLICATION FILED JUNE 19, 1909.

Patented Aug. 16, 1910.

3 SHEETS—SHEET 2.

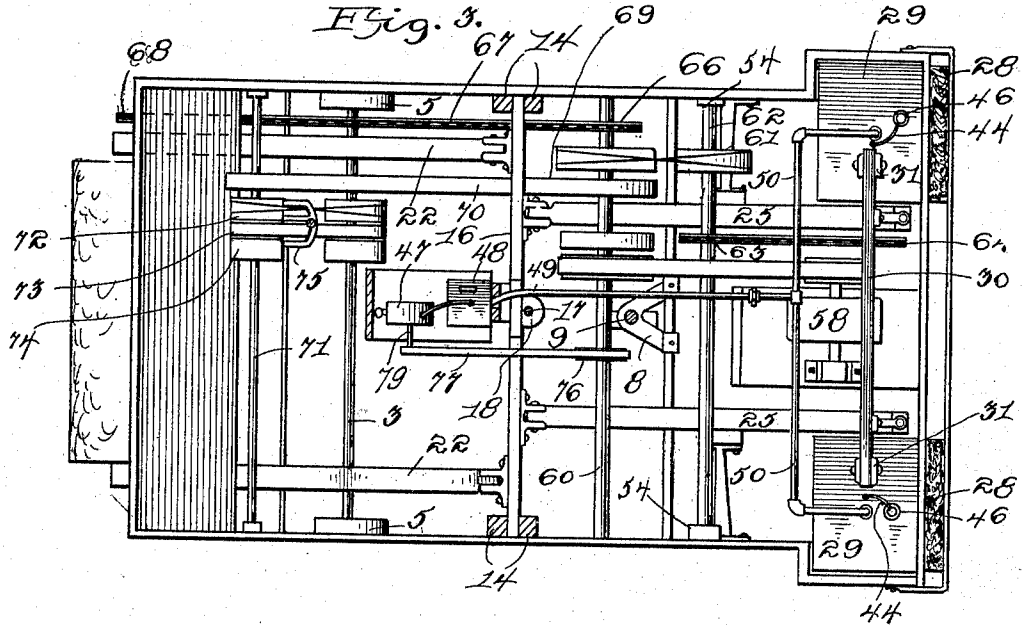
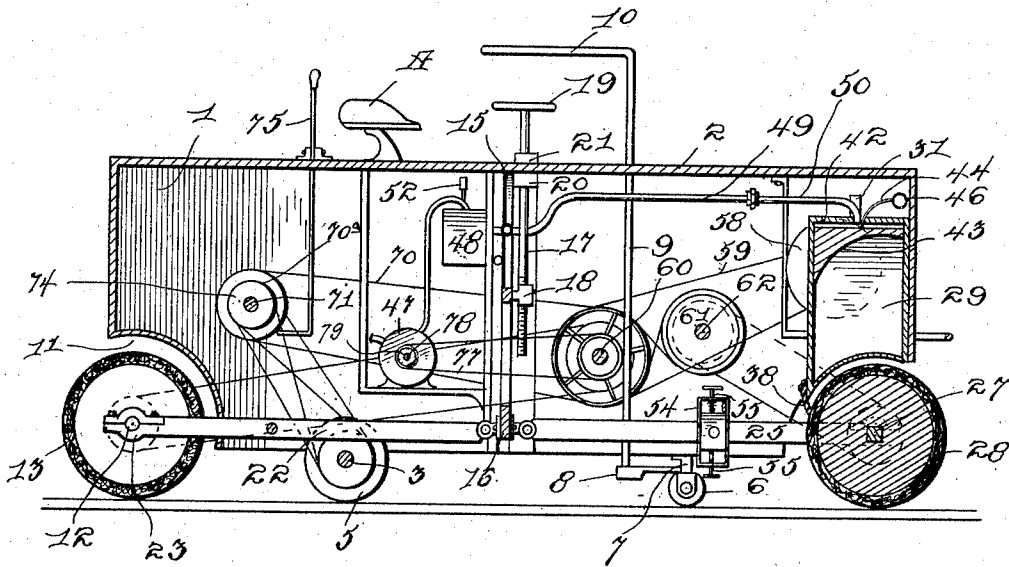


Fig. 2.



Inventor

Isidore B. Barrire.

Witnesses

J. W. Allen
H. J. G. D. D. D.

By E. E. Crooman,
his Attorney.

967,156.

I. B. BARRIRE.
WAXING APPARATUS.
APPLICATION FILED JUNE 19, 1909.

Patented Aug. 16, 1910.

3 SHEETS—SHEET 3.

Fig. 4.

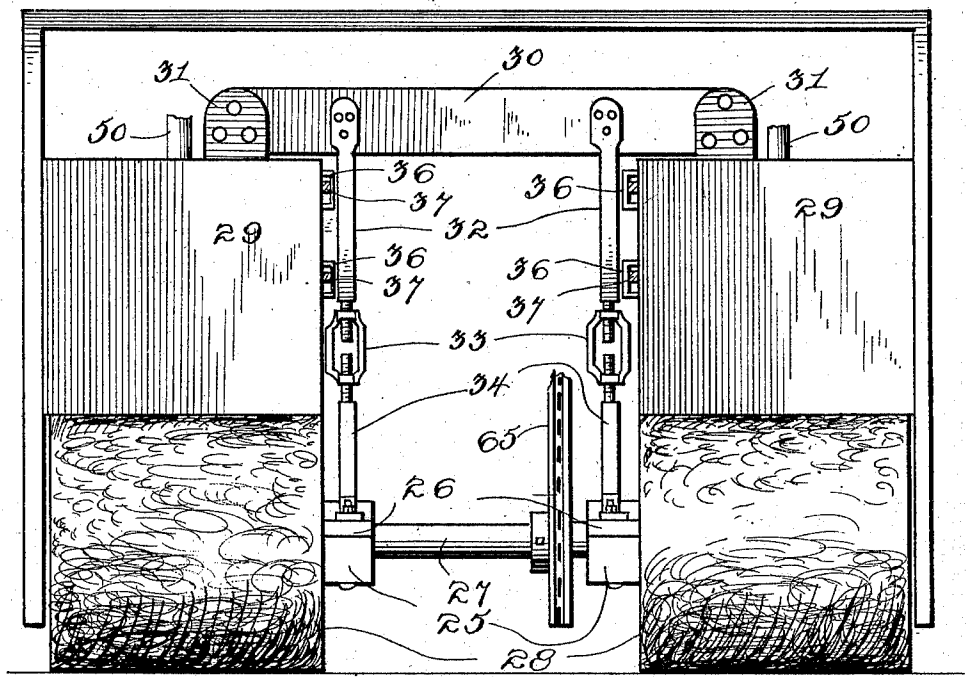


Fig. 11.

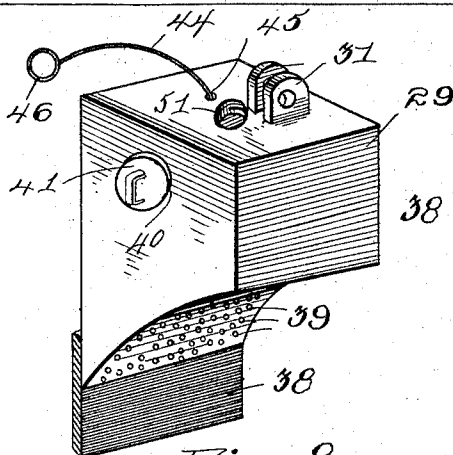
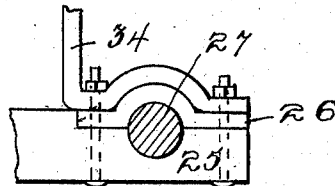


Fig. 8.

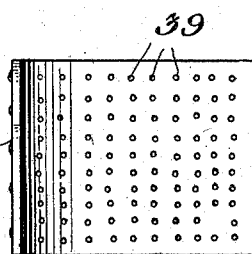


Fig. 9.

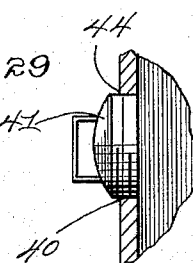


Fig. 10.

Witnesses

J. Wells
H. J. Goodrich

Inventor

Isidore B. Barrire.

By

E. C. Vrooman,
his Attorney

UNITED STATES PATENT OFFICE.

ISIDORE B. BARRIRE, OF WATERBURY, CONNECTICUT.

WAXING APPARATUS.

967,156.

Specification of Letters Patent.

Patented Aug. 16, 1910.

Application filed June 19, 1909. Serial No. 503,161.

To all whom it may concern:

Be it known that I, ISIDORE B. BARRIRE, a citizen of the United States, residing at Waterbury, in the county of New Haven and State of Connecticut, have invented certain new and useful Improvements in Waxing Apparatuses, of which the following is a specification, reference being had therein to the accompanying drawing.

10 This invention relates to surfacing machines, especially adapted for applying wax and oils to floors, and the principal object of the same is to provide a novel wax feeding means and also a novel arrangement of rollers which receive the wax, said rollers being adjustably mounted so that the pressure of the same upon the surface being waxed may be regulated.

15 In carrying out the objects of the invention generally stated above it will, of course, be understood that the essential features thereof are susceptible of changes in details and structural arrangements, but a preferred and practical embodiment of the same is shown in the accompanying drawings wherein—

20 Figure 1 is a view in side elevation of the improved surfacing machine. Fig. 2 is a vertical longitudinal sectional view taken on the line 2—2, Fig. 1. Fig. 3 is a top plan view of the machine, the top of the same being removed. Fig. 4 is a view in front elevation, the front plate being removed. Fig. 5 is a detail side elevation of a cushion device for the waxing rollers. Fig. 6 is a vertical sectional view taken on the line 6—6, Fig. 5. Fig. 7 is a horizontal sectional view taken on the line 7—7, Fig. 5. Fig. 8 is a detail perspective view of one of the waxing tanks. Fig. 9 is a bottom plan view thereof. Fig. 10 is a fragmentary sectional view showing the plug for sealing the waxing tanks. Fig. 11 is a detail view showing the connection of the tank supports with the waxing rollers of the machine.

25 Referring to said drawings, it will be observed that the improved waxing machine is composed of a substantially rectangularly shaped body 1, the top 2 of which is provided with an operator's seat. A power shaft 3 extends across the bottom of the body and has its ends journaled in bearings 4 located adjacent the rear end of said body, said shaft being provided with driving wheels 5. A pair of steering wheels 6 are

located adjacent the forward portion of the body, said wheels having a pivotal connection 7 with the bottom and adapted to be steered by means of a crank 8 to the outer end of which a steering rod 9 has its lower end secured, said rod extending entirely through the body 1 and projecting well above the top 2 and bent at right angles to provide a handle 10 which extends adjacent to the said seat A.

60 The rear under surface of the body 1 is recessed as indicated at 11 and across the same a shaft 12 projects upon which a smoothing or polishing roller 13 is mounted, said roller being preferably covered with felt or like material.

65 The central portion of the interior of each side of the body 1 is provided with spaced apart bars 14 forming between them a guide slot 15 in which is slidably mounted a frame 16 which is adjusted vertically by means of a screw 17 having a threaded engagement with a threaded sleeve 18 projecting from said frame, said screw projecting above the top of the body and being provided with a wheel or handle 19. Interior and exterior collars 20—21 are fast on said screw and bear respectively upon the outer and the inner surface of said top 1. A pair of arms 22 have their inner ends pivotally connected with the base of said frame, their outer ends projecting into the recessed rear portion of the body and are provided with bearings 23 for said shaft 12.

80 The front of the body 1 is recessed similarly to the rear, and a pair of arms 25 projecting forwardly from and pivotally connected to, the frame 16 extend into said forward recess, said arms having their outer ends provided with bearings 26 for a shaft 27 which carries two waxing rollers 28, said rollers being spaced apart and arranged at each forward corner of the body. These rollers are also covered with felt or like material.

85 The recessed forward end of the body 1 is open at its bottom and a pair of wax tanks 29 are arranged therein so as to deliver their contents to the rollers 28. One of said tanks is arranged directly over each roller 28 and is supported in such position by means of a horizontally extending bar 30 the ends of which are firmly attached to lugs 31 projecting from the tops of said tanks. Said bar carries a pair of pendent

vertically arranged rods 32 the lower ends of which are reduced and threaded for engagement with a turnbuckle 33, said turnbuckles being in threaded engagement with the reduced ends of upstanding bars 34 projecting from the bearing blocks 26 mounted on the shaft 27. The tanks are also provided with guide loops 36 which are engaged by rods 37 projecting from the forward portion of the body and which serve to guide the tanks when they are vertically adjusted. Said tanks have their bottoms curved to conform to the contour of the rollers 28 and from the rear end of said bottoms a wiper or spreader 38 projects for smoothing the material falling through the perforations 39 of said bottoms onto said rollers.

The sides of the tanks are provided with openings 40 by means of which wax or the like may be placed within said tanks, said openings being closed by means of the detachable plugs 41. A plunger 42 is mounted in each tank, said plunger slidably fitting therein and having its bottom 43 curved to conform to the bottom of its tank. A cable 44 projects from the top of said plunger and through an opening 45 in the top of the tank and is provided at its outer end with a hand-grip 46 by means of which said plunger may be raised from the outside of the tank. An air pump 47 is mounted within the body 1 and delivers air to a reservoir 48 which has a valve controlled pipe communication 49 with a pipe 50 extending across the front portion of the body and whose ends are extended into top openings 51 formed through the tanks. Said reservoir may be provided with a safety valve 52.

The rearwardly projecting arms 22 are intermediately pivoted to the sides of the body 1, and the forwardly projecting arms 25 are pivotally mounted in a block 53 which is slidably mounted in a frame 54 carried by the sides of the body 1. Said frames at each end are provided with inwardly projecting guide pins 55 which enter slots or openings 56 formed in said block 53, a spring 57 being coiled about each pin and interposed between the said block and the ends of said frame. This described manner of mounting the arms 25 is to provide a cushion for each roller so that its contact with the floor or other surface being treated will be a yielding one.

A motor 58 has a belt connection 59 with a shaft 60, said shaft 60 having a belt connection with a pulley 61 on a shaft 62 which carries a sprocket wheel 63 having a sprocket chain connection 64 with a sprocket wheel 65 mounted on the forward roller shaft 27. Shaft 60 also carries a sprocket wheel 66 which has a chain connection 67 with a sprocket wheel 68 on the rear roller shaft 12. Shaft 60 also carries another pulley 69 which

has a belt connection 70 with a pulley 70^a on a rear shaft 71, said shaft 71 being provided with a forward pulley 72, a reverse pulley 73, and an idle pulley 74, said pulleys having a belt connection with similar pulleys mounted on the driving shaft 3, said belt connections being controlled by means of a shifter 75 which projects through the top of the body 1.

It will be understood, of course, that the above described manner of utilizing the power of the motor 58 for propelling the machine is but one of the many that may be employed, and therefore the present invention is not limited to such use.

Shaft 60 is provided with a pulley 76 which has a belt connection 77 with a pulley 78 mounted on the air pump shaft 79.

It will be seen from the foregoing that when the tanks are filled with waxing material, the same will be discharged therefrom by means of the plungers which are forced down onto said material by the air pressure from the air reservoir, so that said material will ooze through the perforated bottoms of the tanks and fall onto the rollers 28 and by the same be distributed upon the floor or other surface to be treated. Another prominent feature of the invention is in the manner of adjustably mounting the tanks within the body, so that the same may be raised or lowered relatively to the rollers, and held rigidly in such adjusted position.

Still another prominent feature of the invention is in the manner of adjusting the forward and rear rollers by means of the screw which projects through the top of the machine, as it will be understood that by the same the pressure of the said rollers may be quickly regulated by the operator to compensate for various conditions of the surface being treated.

It will be understood, of course, that while the front and rear rollers have been described as covered with felt or like material, brushes may be substituted therefor if desired, and also, that the machine may be used for smoothing surfaces, in which instance the rollers would be covered with abrasive material, such as sandpaper.

What I claim as my invention is:—

1. A machine of the character described comprising a body provided with propelling means, a roller at one end of said body, wax supplying rollers at the other end of said body, a separate tank for each roller, means for simultaneously adjusting said tanks above said rollers, a plunger in each tank, and means for forcing said plungers downwardly in said tank to force material in said tanks on to said rollers.

2. A surfacing machine comprising a body provided with propelling means, wax applying rollers at one end of said body, a separate tank for each roller, a plunger in each

tank, and means for forcing said plungers downwardly in said tanks to force material from said tanks onto said rollers.

5 3. A surfacing machine comprising a body provided with propelling means, wax applying rollers at one end of said body, a wax delivering tank for each roller, a plunger in each tank, and pneumatic means for actuating said plungers to force wax from said tanks and onto said rollers.

10 4. A surfacing machine comprising a body provided with propelling means, adjustable wax applying rollers for one end of said body, a tank for delivering to each roller, a plunger in each tank, and means for actuating said plungers to force material from said tanks and onto said rollers.

15 5. A machine of the character described comprising a body provided with propelling

means, rollers at each end of said body, inwardly projecting arms supporting said rollers, a frame slidable in said body and pivotally connected to said arms, and means for adjusting said frame. 20

6. A machine of the character described comprising a body provided with propelling means, wax applying rollers adjustably mounted in the front portion of said body, arms supporting said rollers, a cushioning block for each arm, and means for adjusting said arms. 25 30

In testimony whereof I hereunto affix my signature in presence of two witnesses.

ISIDORE B. BARRIRE.

Witnesses:

ERNEST LIOTARD,
CHAS. BANNETT.