Nov. 15, 1955 H. PEIKER 2,723,408

SHOE POLISHING MACHINE

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Fig. 1.

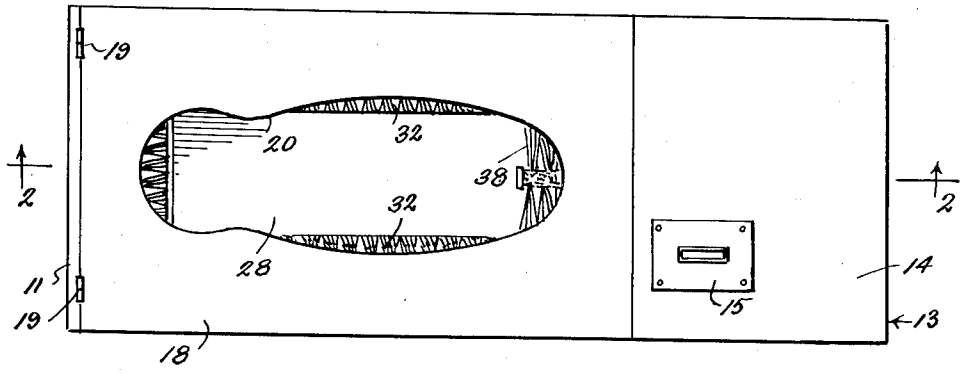


Fig. 2.

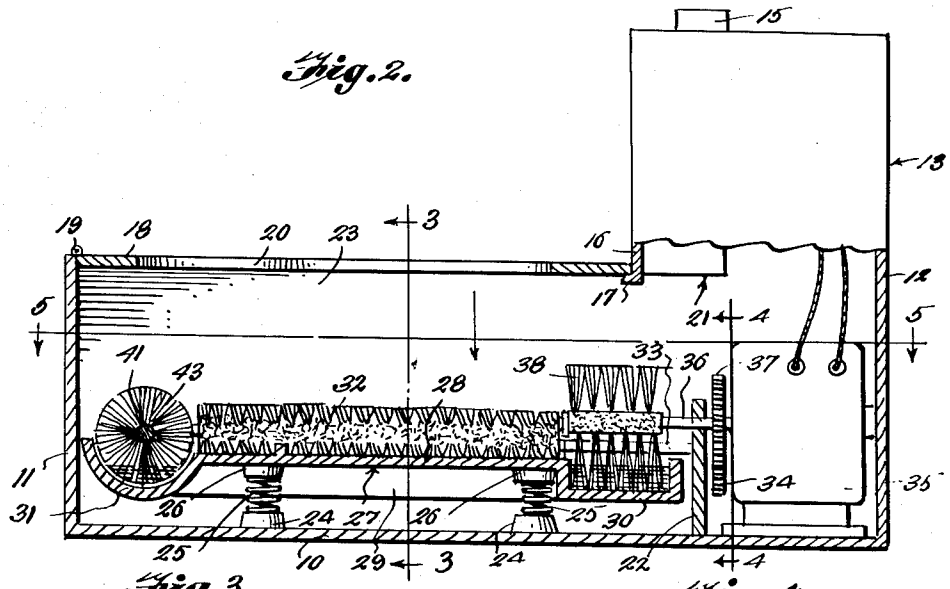


Fig. 3.

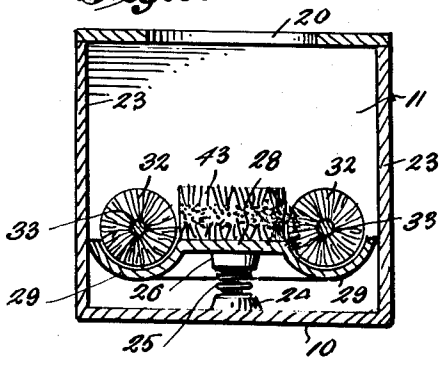
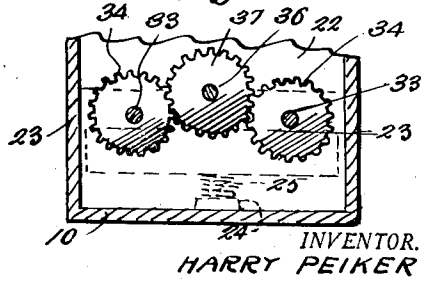


Fig. 4.



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Fig. 5.

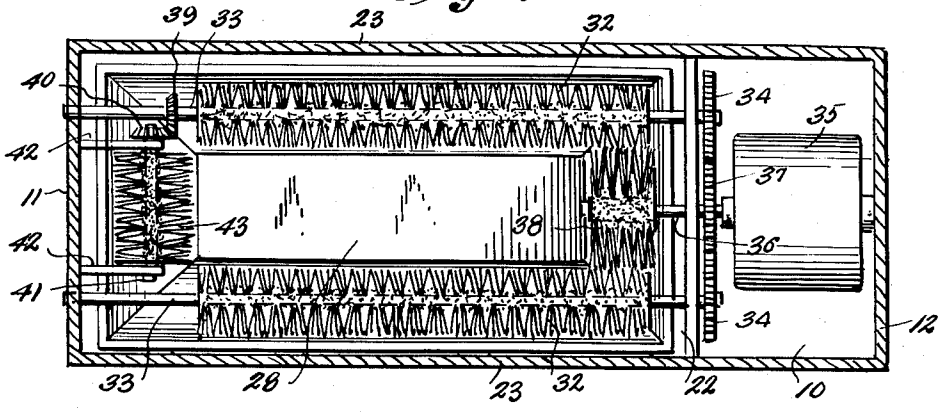


Fig. 6.

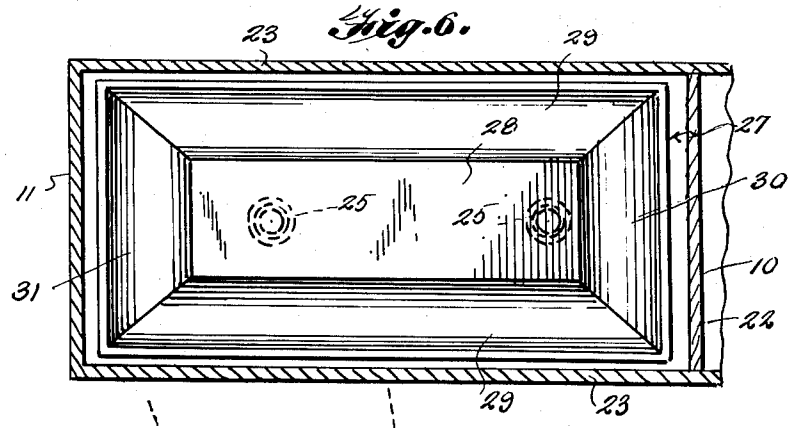
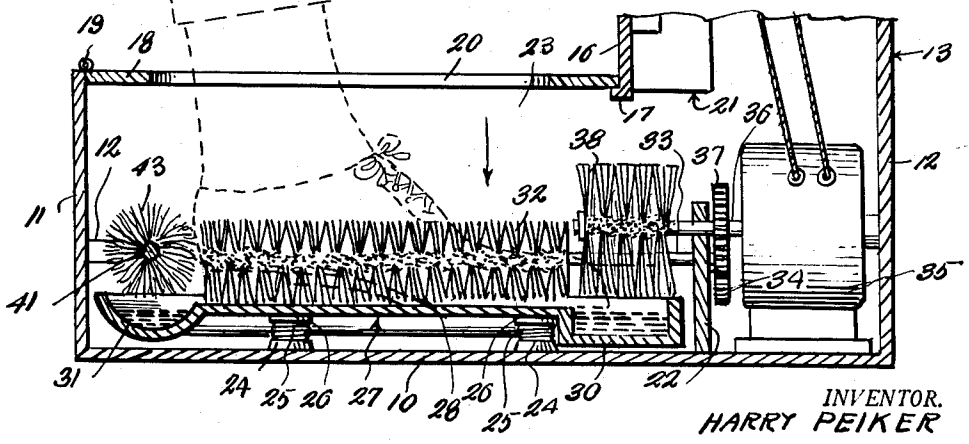


Fig. 7.



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SHOE POLISHING MACHINE

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Application April 20, 1951, Serial No. 222,080

6 Claims. (Cl. 15—31)

The present invention relates to a shoe polishing machine and it consists in the combinations, constructions and arrangements of parts herein described and claimed.

Generally there is provided a coin-controlled electrically operated shoe polishing machine consisting of a housing having a foot-receiving opening in the top thereof and an elevated forward portion in which is contained a conventional coin-control mechanism having a coin-receiving slot in the upper end thereof. Within the housing and below the opening is a spring-supported platform which is provided with a shoe-receiving portion and a plurality of integrally formed trays which are adapted to contain liquid shoe polish which may be replenished from time to time. The trays are arranged forwardly, rearwardly and at the sides of the shoe-receiving portion of the platform. A plurality of rotary brushes are each horizontally mounted above the trays and are normally received in such trays and a motor and gearing is provided for rotating such brushes when the platform is depressed by the placing of a shoe-clad foot thereon after first inserting a coin in the slot aforesaid.

It is accordingly an object of the invention to provide a machine of the character set forth which is simple and inexpensive in construction, easy to operate and yet effective and efficient in use.

Another object of the invention is the provision, in a machine of the character set forth, of a novel arrangement of rotary brushes forming a part of the invention.

A further object of the invention is the provision, in a machine of the character set forth, of novel polish reservoirs or trays forming a part of the invention.

A still further object of the invention is the provision of novel means for the automatic application of polish to certain brushes forming a part of the invention.

Other and further objects of the invention will become apparent from a reading of the following specification taken in conjunction with the drawings, in which:

Figure 1 is a plan view of an embodiment of the invention,

Figure 2 is a sectional view, partly in elevation, taken substantially along line 2—2 of Figure 1 and showing the machine forming the present invention in normal inoperative position,

Figure 3 is a sectional view taken along line 3—3 of Figure 2,

Figure 4 is a fragmentary sectional view taken along line 4—4 of Figure 2,

Figure 5 is a sectional view taken along line 5—5 of Figure 2,

Figure 6 is a plan view, partly in section, illustrating a shoe-receiving platform and trays forming a part of the invention, and

Figure 7 is a fragmentary sectional view similar to Figure 2 but showing the machine in operative position.

Referring more particularly to the drawings, there is shown therein an elongated housing having a bottom 10, a rear wall 11, a relatively higher front wall 12 which also defines the forward wall of an elevated portion of

the housing which is generally designated at 13. The elevated portion 13 is provided with a top 14 in which is mounted a conventional coin-receiving slot assembly 15 and with a rear wall 16 which extends downwardly from the top 14 to a point slightly below the height of the rear wall 11. The wall 16 is provided with a rearwardly extending transverse lip 17.

A cover 18 is hinged, as indicated at 19, to the upper end of the wall 11 and its forward end is adapted to rest upon the lip 17, as shown in Figures 2 and 7. A foot-receiving opening 20 is centrally provided in the cover 18. Within the elevated portion 13 there is mounted a coin-control mechanism which is generally indicated at 21 and which per se forms no part of the present invention.

A vertical partition 22 is mounted upon the bottom 10 and interconnects the sides 23 of the housing. A pair of spaced longitudinally and centrally disposed socket members 24 is mounted upon the bottom 10 and in each of such members is positioned an upwardly extending compression spring 25 whose upper ends are positioned in sockets 26 dependently carried by a platform generally designated at 27.

The platform 27 is positioned immediately below the opening 20 and consists of a centrally disposed shoe-receiving portion 28, an integrally formed side tray 29 at either side thereof, an integrally formed forward tray 30, and an integrally formed rearward tray 31.

A pair of side-polishing elongated rotary brushes 32 is provided with shafts 33 which are journaled at their rear ends in the wall 11 and which extend through the partition 22 and which are each provided with a gear 34 at their forward ends.

An electric motor 35 is mounted on the bottom 10 between the wall 12 and the partition 22 and is provided with a rearwardly extending shaft 36 which has affixed thereto a gear 37 which is enmeshed with both of the gears 34 and which extends through the partition 22 to a point over the rear end of the tray 30 and which has mounted thereon a rotary brush 38 which overlies the tray 30.

One of the shafts 33 has affixed thereto a bevel gear 39 which is enmeshed with a bevel gear 40 carried at one end of a transverse shaft 41 which is revoluble in a pair of spaced brackets 42 which are attached to the forward side of the wall 11. The shaft 41 has mounted thereon a rotary brush 43 which is partially receivable in the tray 31 when the same is in its upper position or as shown, for example, in Figure 2 of the drawings.

In operation, it will be apparent that in order to ready the apparatus for use, it is first necessary to insert a coin into the slot assembly 15 which, through conventional means, will cause the motor 35 to run when the platform 27 is in a depressed position and for a certain total limit of time.

It will be apparent that the platform 27 remains in a normally upward position due to the action of the supporting compression springs 25 and that when the same is in such raised position, the brush 38 will lie partially in the tray 30, the brushes 32 will be partially encompassed by the trays 29, and the brush 43 will lie in the tray 31. The trays will be filled from time to time with a liquid shoe polish and hence the brushes will at all times, when the machine is in inoperative condition, contain a sufficient amount of polish to be applied to that portion of a shoe for which it is designed to serve.

When the platform 27 is depressed against the action of the springs 25 by the user of the device placing his shoe-clad foot upon the shoe-receiving portion 28 thereof in the manner illustrated in Figure 7, for example, the trays 29, 30 and 31 will be moved away from the brushes which will at that time become operative through a switch

mechanism of conventional character and forming a part of the coin-control system.

The sides of the shoe will then be applied with polish and brushed by the rotating brushes **32**, the heel of the shoe will be applied with polish and brushed by the rotating brush **43**, and the toe of the shoe will be applied with polish and brushed by the rotating brush **38** which latter is at such height as to allow the toe of the shoe to be moved thereunder. By manipulating the shoe from side to side and forwardly and rearwardly, the entire outer surface thereof may be completely polished and brushed.

While but one form of the invention has been shown and described herein, it will be readily apparent to those skilled in the art that many minor modifications may be made without departing from the spirit of the invention or the scope of the appended claims.

What is claimed is:

1. A machine of the character described comprising a housing, a cover for said housing having a shoe-receiving opening therein, a plurality of horizontally extending rotary brushes fixedly positioned in said housing, a vertically movable horizontally extending platform in said housing below said opening, said brushes adapted to contact a shoe placed on said platform, a polish holding tray formed integrally with the sides of said platform below each of said brushes, said brushes being partially positioned each within its associated tray when said platform is in raised position, said brushes being wholly without said trays when said platform is in lowered position, and means for rotating said brushes.

2. A machine of the character described comprising a housing, a cover for said housing having a shoe-receiving opening therein, a vertically movable spring-supported horizontally extending platform in said housing below said opening, a longitudinally extending rotary brush mounted adjacent each side of said platform, a transversely extending rotary brush mounted adjacent the rear of said platform, a transversely extending rotary brush mounted adjacent the forward end of said platform, said brushes being fixedly positioned in said housing and adapted to contact a shoe placed on said platform, a liquid polish holding tray for each of said brushes, said trays carried by the sides of said platform beneath their associated brushes, said brushes being partially positioned each within its associated tray when said platform is in raised position, said brushes being wholly without said trays when said platform is in lowered position, and means for rotating said brushes.

3. A machine of the character described comprising a housing, a cover for said housing having a shoe-receiving opening therein, a plurality of horizontally extending rotary brushes fixedly positioned in said housing, a vertically movable horizontally extending platform in said housing below said opening, said brushes adapted to contact a shoe placed on said platform, a polish holding tray formed integrally with said platform below each of said brushes, said brushes being partially positioned each within its associated tray when said platform is in raised position, said brushes being wholly without said trays when said platform is in lowered position, and means for rotating said brushes, said platform being supported by a plurality of vertically extending compression springs.

4. A machine of the character described comprising a housing, a cover for said housing having a shoe-receiving opening therein, a vertically movable horizontally extending platform in said housing below said opening, a horizontally extending rotary brush fixedly positioned in said housing adjacent each side of said platform, a transversely extending rotary brush mounted adjacent the rear of said platform, a transversely extending rotary brush mounted adjacent the forward end of said platform, said brushes adapted to contact a shoe placed on said platform, a liquid polish holding tray for each of said brushes, said trays carried by the sides of said platform beneath their associated brushes, said brushes being partially positioned each within its associated tray when said platform is in raised position, said brushes being wholly without said trays when said platform is in lowered position, and means for rotating said brushes, said platform being supported by a plurality of vertically extending compression springs.

5. A machine of the character described comprising a housing, a cover for said housing having a shoe-receiving opening therein, a plurality of horizontally extending rotary brushes fixedly positioned in said housing, a vertically movable horizontally extending platform in said housing below said opening, said brushes adapted to contact a shoe placed on said platform, a polish holding tray formed integrally with a side of said platform below each of said brushes, said brushes being partially positioned each within its associated tray when said platform is in raised position, said brushes being wholly without said trays when said platform is in lowered position, and means for rotating said brushes, said platform being supported by a plurality of vertically extending compression springs, and said brush adjacent the forward end of said platform being in a relatively higher position than the remainder of said brushes.

6. A machine of the character described comprising a housing, a cover for said housing having a shoe-receiving opening therein, a vertically movable horizontally extending platform in said housing below said opening, a longitudinally extending rotary brush mounted adjacent each side of said platform, a transversely extending rotary brush mounted adjacent the rear of said platform, a transversely extending rotary brush mounted adjacent the forward end of said platform, said brushes adapted to contact a shoe placed on said platform, a liquid polish holding tray for each of said brushes, said trays carried by the sides of said platform beneath their associated brushes, said brushes being partially positioned each within its associated tray when said platform is in raised position, said brushes being wholly without said trays when said platform is in lowered position, and means for rotating said brushes, said platform being supported by a plurality of vertically extending compression springs, and said brush adjacent the forward end of said platform being in a relatively higher position than the remainder of said brushes.

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