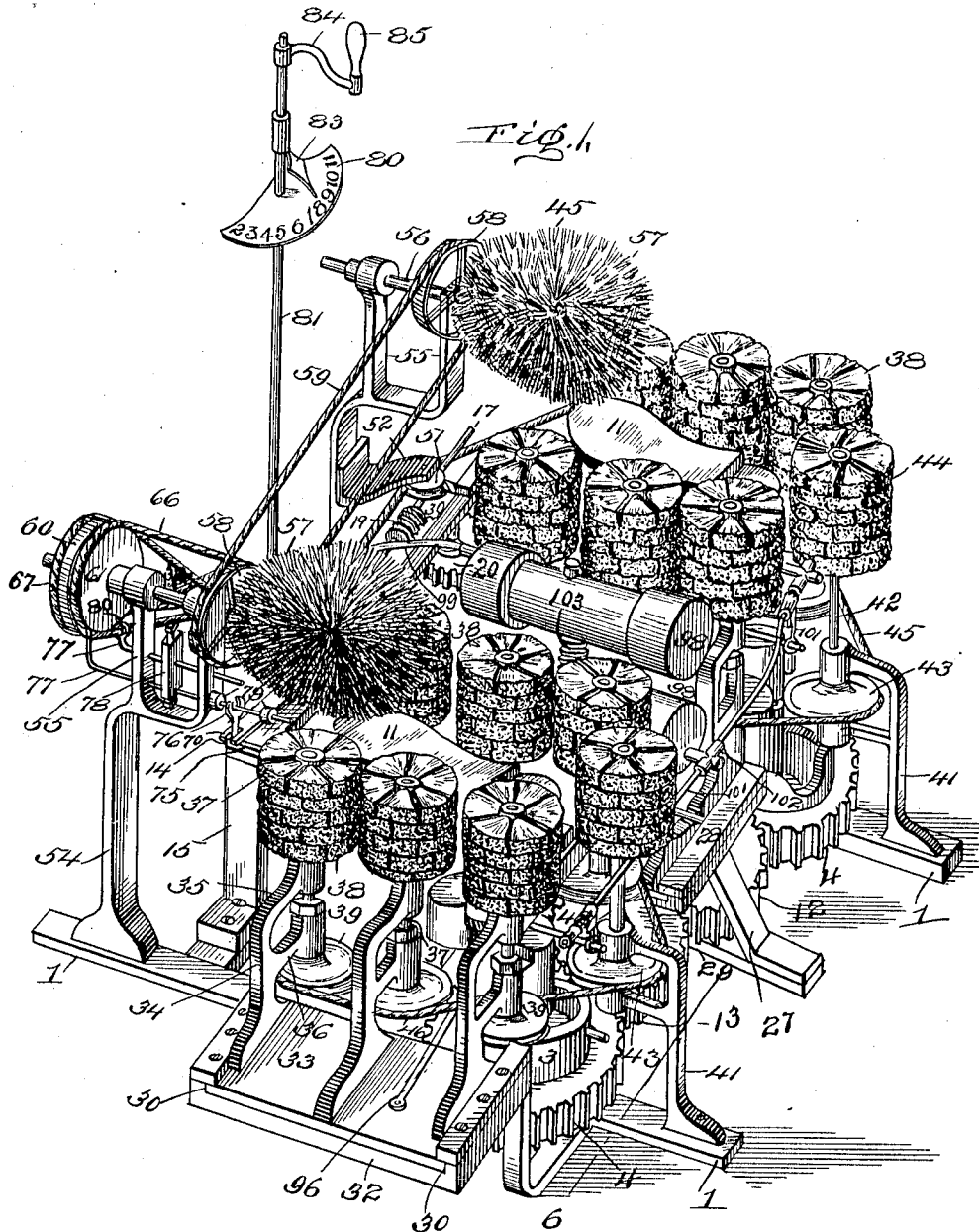


E. E. LINEBACK.
 BOOT AND SHOE CLEANING AND POLISHING MACHINE.
 APPLICATION FILED MAY 2, 1905.

1,019,672.

Patented Mar. 5, 1912.

4 SHEETS—SHEET 1.



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By

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Witnesses

G. M. Spring

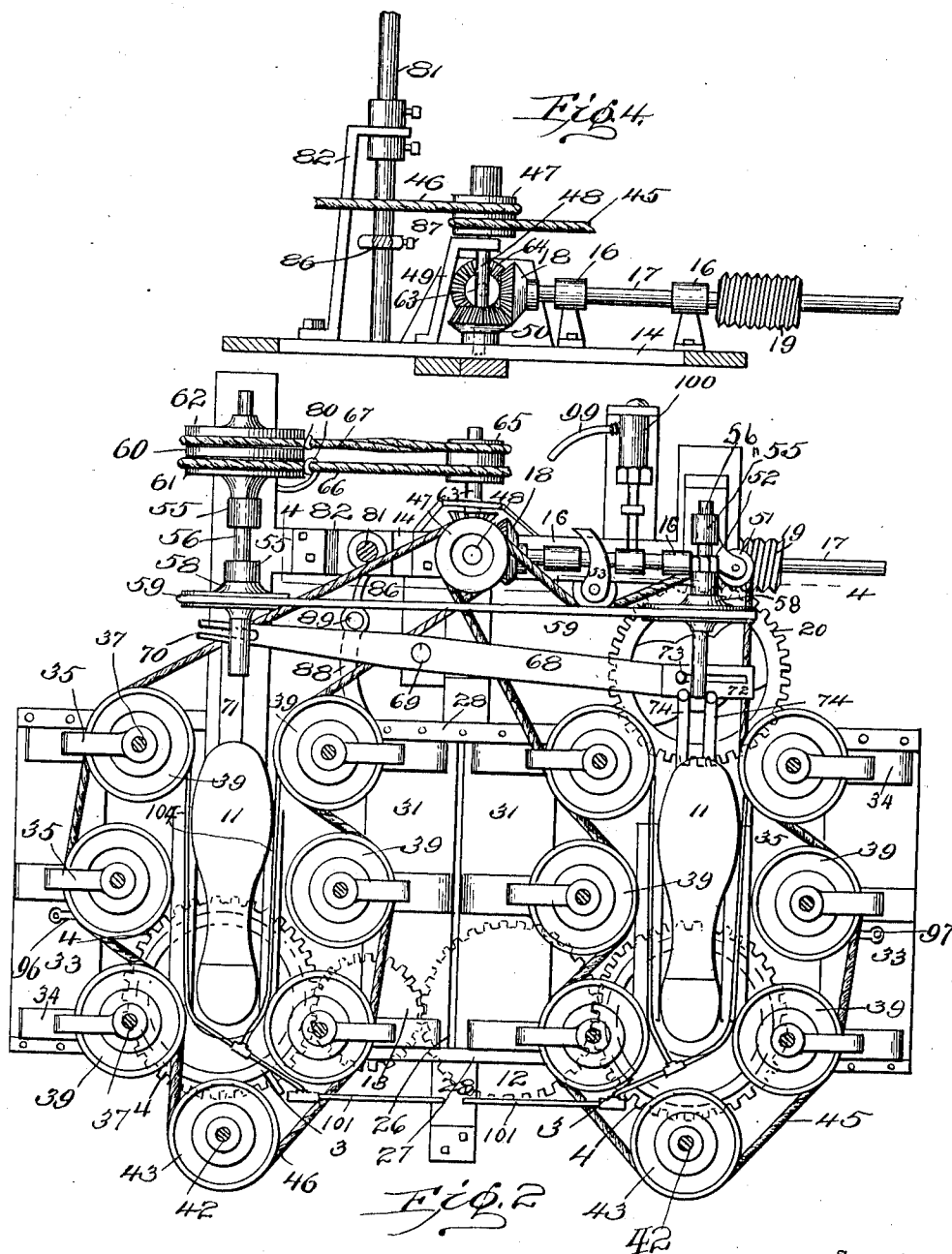
E. E. Vrooman.

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4 SHEETS—SHEET 2.



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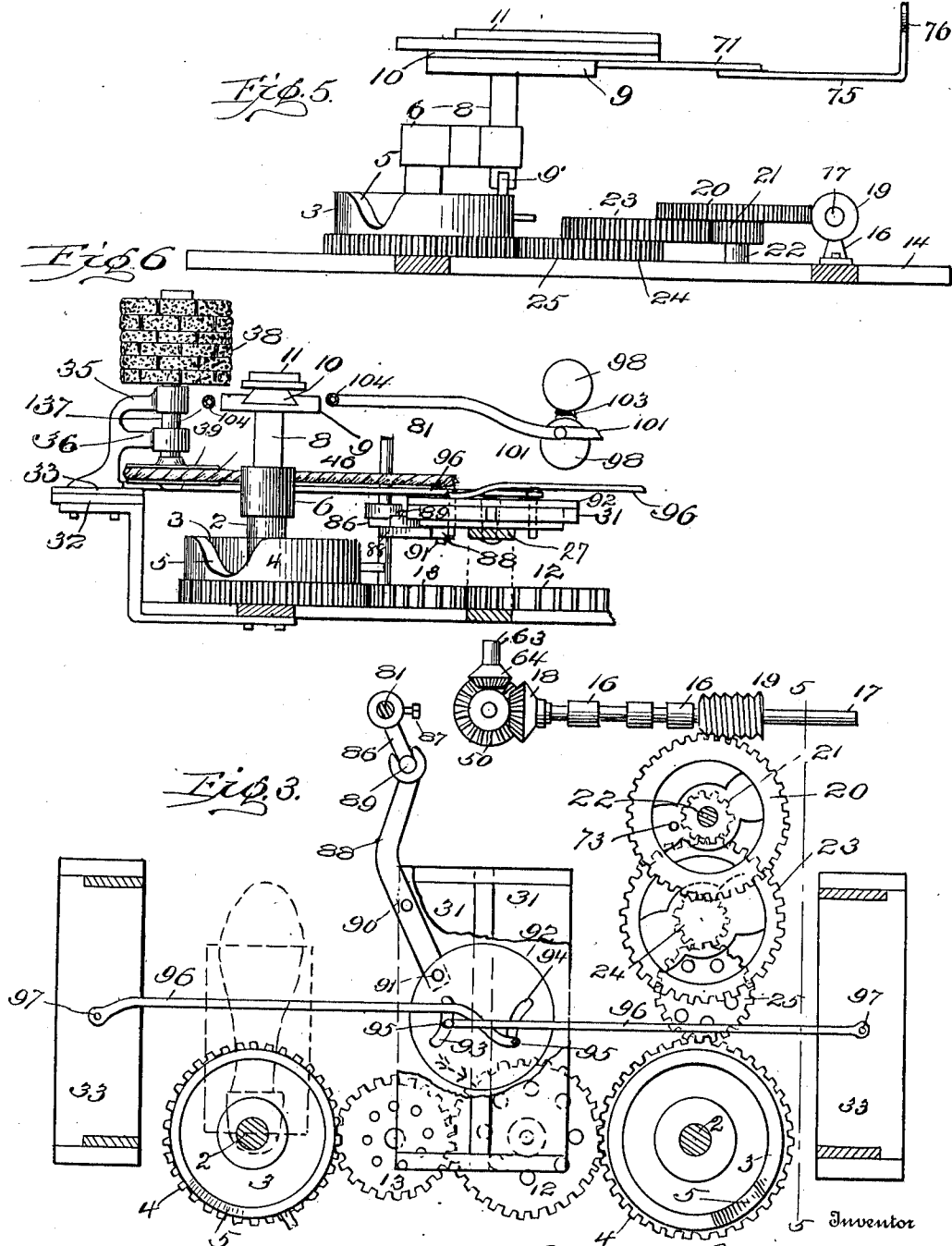
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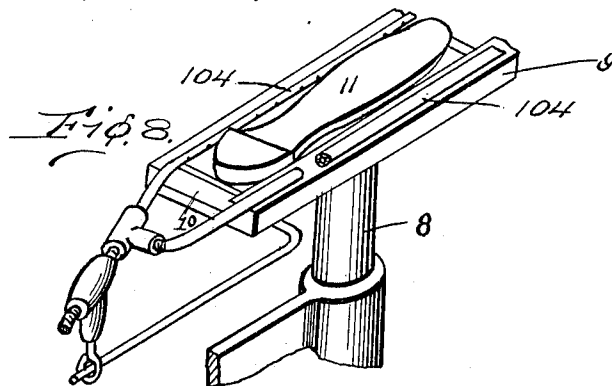
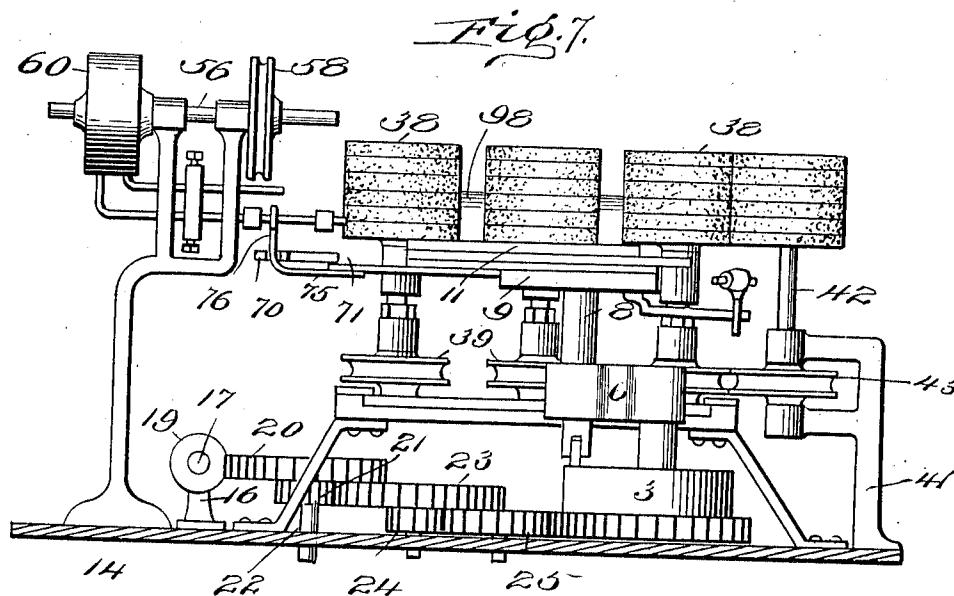
4 SHEETS-SHEET 3.



Witnesses
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 4 SHEETS—SHEET 4.



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UNITED STATES PATENT OFFICE.

EDWARD EVANOUS LINEBACK, OF WINSTON SALEM, NORTH CAROLINA, ASSIGNOR, BY DIRECT AND MESNE ASSIGNMENTS, OF ONE-SIXTH TO JOSEPH E. ALEXANDER AND FIVE-SIXTHS TO WILLIAM D. CURRIN, OF WINSTON SALEM, NORTH CAROLINA.

BOOT AND SHOE CLEANING AND POLISHING MACHINE.

1,019,672.

Specification of Letters Patent.

Patented Mar. 5, 1912.

Application filed May 2, 1905. Serial No. 258,565.

To all whom it may concern:

Be it known that I, EDWARD EVANOUS LINEBACK, a citizen of the United States, residing at Winston Salem, in the county of Forsyth and State of North Carolina, have invented a new and useful Boot and Shoe Cleaning and Polishing Machine, of which the following is a specification.

This invention relates to improvements in boot and shoe cleaning and polishing mechanisms.

The object of the invention is the provision of means for facilitating the cleaning and polishing of a surface, preferably a boot or shoe.

With this and other objects in view, the invention consists of certain other novel constructions, combinations, and arrangements of parts, as will be hereinafter fully described, illustrated in the accompanying drawings, and more particularly pointed out in the claims hereto appended.

In the drawings: Figure 1 is a perspective view of a mechanism constructed in accordance with the present invention. Fig. 2 is a fragmentary, top plan view of the mechanism depicted in Fig. 1, the rotary brushes being removed. Fig. 3 is a fragmentary, top plan view of the gearing and the cam wheels, which are capable of vertically moving a foot rest; the adjusting means for the slides carrying the rotary brushes being partly shown. Fig. 4 is a fragmentary view, in side elevation of the mechanism, taken on line 4, 4, Fig. 2. Fig. 5 is a fragmentary view, in elevation, of the mechanism taken on line 5, 5, Fig. 3. Fig. 6 is a fragmentary view, in front elevation, of the mechanism taken on line 6, 6, Fig. 1. Fig. 7 is a section through Fig. 2 on line 7—7. Fig. 8 is an enlarged detail fragmentary perspective view, showing the shoe support and spraying tubes and associated parts.

My cleaning and polishing mechanism is placed in operation by any suitable device, which throws a switch electrically connected to a motor which drives the gearing of the mechanism.

The mechanism comprises a frame, which is provided with horizontally and vertically movable foot supports, and with stationary and adjustable, rotatable brushes. Lever actuated means is employed for moving the

adjustable, rotatable brushes relative to the size of the boot or shoe being cleaned and polished. A polishing liquid is contained in pressure tanks carried by the framework and is capable of being discharged automatically upon the boot or shoe that is to be polished.

Referring more particularly to the drawings by numerals 1, 1 designate substantially parallel, horizontal beams, which normally engage a support. Upon each of the beams 1, there is mounted a shaft 2. Upon the shaft 2 a cam wheel 3 is journaled. The cam wheel 3 is provided with a gear 4 and with a cam groove 5. A horizontal extension 6 is secured at the upper end of shaft 2, Fig. 6. A sleeve 7 is formed integral with the extension 6. A vertically movable shaft 8 is positioned within the sleeve 7. Journaled in the lower end of the shaft 8 is a roller 9'. The roller 9' is normally in engagement with the upper edge of the rim of the cam wheel 3. As the cam wheel 3 revolves, the roller 9' is moved down into the cam groove 5 of the rim of said wheel, and, consequently, allows the shaft 8 to slide down within the sleeve 7. A horizontal, grooved plate 9 is fixedly secured to the upper end of the shaft 8. Within the grooved portion of plate 9 is positioned the tongue 10 of the boot or shoe plate 11. The grooved portion of plate 9 and the tongue 10 are preferably of dove-tail structure. The two cam wheels 3, 3, Figs. 1 and 2, are connected by intermediate gear wheels 12 and 13. These intermediate wheels 12 and 13 mesh with the gears of the cam wheels.

The framework of the machine is provided with a horizontal beam 14 supported upon legs 15. Brackets 16, 16 are carried by the beam 14. Journaled in the brackets 16 is a drive shaft 17, which is provided at its inner end with a beveled gear 18. The shaft 17 carries a worm 19. The worm 19 meshes with a primary gear wheel 20. The primary gear wheel 20 is provided with a pinion 21. The gear wheels 20 and pinion 21 are carried by a shaft 22, Fig. 5, which is supported upon the framework. An auxiliary gear wheel 23 meshes with the pinion 21. The auxiliary gear wheel 23 is provided with a small gear 24, similar to pinion 21. An intermediate gear wheel 25 meshes

with the gear wheel 24 and one of the cam wheels 3. It will be noted that when rotary movement is imparted to the drive shaft 17, preferably by means of a motor, a train of
5 gears will be rotated, thereby revolving the cam wheels 3.

A slide-support 26 is supported upon the central beams 27. The ends of the slide-support 26 are provided with overhanging
10 strips 28, which, owing to the upward extension of the slide-support 26, produce guide-ways 30 at the ends of said slide-support. Carried by the slide-support 26 are slides 31. A slide-support 32 is secured
15 at each end of the framework and is provided with guide-ways 30, similar to the slide-support 26. Each end slide-support carries a slide 33. All of the slides 31 and 33 are horizontally adjustable, transversely
20 of the shoe supports. Each of the slides 31 and 33 is preferably provided with a plurality of standards 34. The standards 34 are arranged parallel upon the slides, and each is provided with horizontally extending
25 arms 35 and 36. Within the outer ends of these arms, there is journaled a shaft 37. Fixedly secured to the upper end of each of the shafts 37 is a brush 38. Fixedly secured to the lower end of each of the shafts 37 is
30 a pulley 39, which is preferably provided with a peripheral groove 40. Each slide is preferably provided with three rotary brushes, and each set of brushes is capable of being adjusted toward or away from the
35 foot-support.

Upon the front end of each of the beams 1, there is secured a standard 41, which is similarly constructed to the standards 34. Upon the horizontal extensions of each of
40 these standards 41, there is journaled a vertical shaft 42. Fixedly secured to each of the shafts 42, between the horizontal extensions of the standards 41, is a grooved pulley 43. Brushes 44 are fixedly secured to the
45 upper ends of the revoluble shafts 42; the brushes 44 being positioned contiguous to the heel of the boot or shoe supporting plates 11. The pulleys 39 and 42 are synchronously actuated by means of belts 45 and 46,
50 which pass around a double, grooved pulley 47, fixedly secured to a vertical shaft 48. The vertical shaft 48, Fig. 4, is journaled in a bracket 49 and beam 14. The bracket 49 is carried by beam 14. Fixedly secured
55 to the shaft 49 is beveled gear 50. The beveled gear 18 of the shaft 17 meshes with the beveled gear 50, and, consequently, when rotary movement is imparted to the drive shaft, similar movement will be imparted to
60 the double pulley 47, causing the belts 45 and 46 to be actuated. Each belt, in the present instance, preferably drives seven pulleys, six of which are capable of horizontal adjustment. A small, grooved pulley
65 51, Figs. 1 and 2, is carried by a bracket 52,

said pulley 51 being engaged by belt 45. A belt tightener 53, Fig. 2, is employed. Said tightener 53 is of any ordinary structure known to the prior art.

Secured to the rear of the horizontal
70 beams 1, 1 are vertical standards 54. Each of these standards 54 is provided with parallel, vertical extensions 55, 55, upon which is journaled a horizontal shaft 56. Fixedly
75 secured to the forward end of each of these shafts, is a brush 57. The brush 57 is preferably not formed of as stiff bristles as brushes 38 and 44. The brushes 57 are employed for cleaning and polishing the toe
80 of a boot or shoe. Secured to each of the shafts 56, and preferably between the brush 57 and the inner extension 55, is a pulley 58. The pulleys 58 carried by the shafts 56 are connected by belt 59. Fixedly secured upon
85 one of the shafts 56 is a pulley 60. Loosely mounted upon shaft 56 and upon opposite sides of pulley 60 are pulleys 61 and 62. Carried by the beam 14 is a horizontal shaft
90 63, which is provided at its inner end with a beveled gear 64. Fixedly secured to shaft 63 is a double grooved pulley 65. Positioned upon loose pulley 61 and the double grooved
95 pulley 65, is a straight belt 66. A cross-belt 67 is also positioned upon loose pulley 62 and said pulley 65. Upon positioning the straight belt 66 upon the fixed pulley 60 of
100 shaft 56, the brushes 57 will be driven in one direction, and upon positioning the cross-belt 67 upon said pulley 60, the movement of said brushes 57 will be reversed. The
105 reversing of the movement of said brushes 57 and the causing of the horizontal movement of the boot or shoe supporting plates 11, is caused by the following mechanism. Lever 68 is pivotally mounted, as at 69.
110 The bifurcated end 70 engages an extension 71 of the slidable tongue 10 carrying the boot or shoe engaging-plate 11. Secured to the opposite end of lever 68 is a slotted
115 plate 72. A pin 73 is carried by the gear wheel 20. The pin 73 projects through the slot of plate 72, and, as said wheel 20 rotates, said pin 73 travels longitudinally of
120 said plate within its slot. The rotation of gear wheel 20 will necessarily swing lever 68 upon its pivot point 69, and, consequently, move the tongue 10 through the medium of the extension 71 within the
125 grooved portion of the plate 9. The slotted plate 72 is secured to the extensions 74 of the right hand boot or shoe support. Through the medium of these extensions 74, when movement is imparted to the lever,
130 sliding movement will also be imparted to said support. It will be obvious that when the gear wheel 20 is rotated, lever 68 will be swung upon its pivot or fulcrum point, thereby causing the boot or shoe support to be reciprocated, which materially increases the efficiency of the mechanism, as each of

the side brushes will engage different portions of the surface being cleaned and polished.

Fixedly secured to the extension 71 is an angular arm 75, as seen in Figs. 1 and 5, which is provided with a bifurcated end 76. A pair of slidable rods 77 is carried by the parallel extensions 55. These rods are fixed against independent movement by means of a block 78. Fixedly secured to the lower rod 77 are sleeves or collars 79. The bifurcated end of the arm 75 is positioned between the sleeves 79. On the upper end of each of the rods 77, there is formed a loop 80. The looped portion 80 of the upper rod 77 surrounds the straight belt 66, while the similar portion of the lower rod 77 surrounds the cross-belt 67. Upon the rods being moved horizontally to their farthest inward position, by means of the arm 75 engaging the inner sleeve 79, the cross belt 67 will be positioned upon the tight or fixed pulley 60, thereby driving the brushes 57 in one direction, but as the extension 71 of the boot or shoe support 11, carried by the left hand portion of the machine moves outward, and the bifurcated end 75 engages the collar 79, the belt shifter will move the cross belt 67 from off of the tight pulley 60 and will position the straight belt 66 upon pulley 60, thereby reversing the movement of the brushes 57. This reversing of the movement of the brushes 57 is caused about every hundred revolutions of said brushes, while the brushes 38 and 44 are rotated continuously in the same direction.

An indicating plate 80 is carried by any suitable support. A vertical shaft 81 is journaled in beam 14 and bracket 82, Figs. 2 and 4. A pointer 83 is secured to shaft 81 above the indicating plate 80. A handle 84 is fixedly secured preferably to the upper end of shaft 81. The handle is provided with a grip 85. By grasping the grip 85 of the handle 84 and imparting rotary movement to shaft 81, the adjusting of the pointer 83 will be accomplished, so that it may designate the exact size of the boots or shoes to be cleaned and polished. Thereby and through means connected to said shaft 81 and adjustable brushes, said brushes will be positioned so that the boots or shoes resting upon the plates 11 will be completely cleaned and shined as more clearly hereinafter described.

Referring particularly to Fig. 3, an arm 86 is fixedly secured to shaft 81, by means of a thumb-screw 87. A curved or angular arm or bar 88 is connected by a knuckle joint to the arm 86 at 89. The arm 88 constitutes a lever, which is fulcrumed upon the framework, as at 90, Fig. 3. The outer end of the arm or lever 88 is pivotally connected, as at 91, to a revoluble disk 92. The revo-

luble disk is pivotally mounted upon the horizontal beam 27. The disk or cam wheel 92 is provided with cam grooves 93 and 94. Pins 95 are secured to the central slides 31 and extend through the cam grooves 93 and 94 of the disk or cam wheel 92. Connected to pins 95 are slide-adjusting rods 96. These rods are connected, as at 97, to the end slides 33. When the shaft 81 is rotated, lever 88 will be swung upon its pivot or fulcrum point 90 through the medium of arm 86 and will revolve the disk 92, causing horizontal movement of the slides 31 and 33. When the disk or cam wheel 92 is revolved in the direction of the arrow, Fig. 3, middle slides will be closed together, while the end slides are moved apart, thereby increasing the distance between the adjustable brushes, but when the disk is rotated in the opposite direction from that indicated by the arrow, the outer slides 33 will be drawn inward and the central slides will be moved outward toward the outer slides, thereby decreasing the distance between the adjustable brushes. It is to be noted that the operator of the device may adjust the brushes to accommodate the size of the shoes to be cleaned and polished before the coin is deposited in the coin controlled device, which throws the switch to close the circuit and start the motor.

Positioned upon the central portion of the framework of the mechanism is preferably a pair of horizontal tanks 98, one positioned above the other. The upper tank 98 is preferably connected, through the medium of pipe 99, to a pump 100, Fig. 12, which is employed for retaining an air pressure of about twenty pounds in the tanks. The lower tank is used as a liquid receptacle, the liquid contained therein is sprayed upon the boots or shoes that are to be polished, this spraying is accomplished by the liquid passing through pipes 101, which pipes are connected by a three-way coupling 102 to the lower tank also to pipes 104. The two tanks are connected by a hollow tubing 103, which also constitutes a support for the upper tank. Each pipe 104, Fig. 6, preferably partly or entirely surrounds the foot-support. In the pipes 104 are apertures which are formed in the surfaces contiguous to the foot-supports. The polishing liquid is discharged upon the boots or shoes synchronous with the positioning of the plates 11 at their lowest point, by reason of the rollers 9' reaching their lowest position in the cam grooves 5 formed in the rims of the cam wheels 3. The spraying of the liquid is caused by a device being actuated upon the boot or shoe supports reaching their lowest position to open a valve for permitting the discharge of the liquid.

It is to be noted from the foregoing description that the slides 31 and 33 are ad-

justed by rotating the shaft 81 and that the mechanism is operated by means of a motor (not shown) connected to drive shaft 17.

5 The mechanism is provided with horizontally adjustable brushes, and vertically and horizontally movable boot or shoe supports, and with an automatic spraying device, as well as automatic reversing means
10 for alternately changing the movement of the brushes which clean and polish the toe or top portion of the boots or shoes.

What I claim is:

1. A mechanism of the class described,
15 comprising reciprocating supports, cam wheels for vertically moving said supports, and adjustable brushes contiguous to said supports.

2. In a mechanism of the class described,
20 the combination with a framework, of a movable boot or shoe support carried by said framework, a horizontally adjustable brush carried by said framework contiguous to said support, a brush carried by said frame-
25 work above said support, means for driving and means for periodically reversing the movement of said brush positioned above said support.

3. In a mechanism of the class described,
30 the combination with a framework, of reciprocating shoe-supporting plates carried by said framework, means for vertically moving said plates, adjustable, rotatable brushes carried by said framework contiguous to said plates, rotatable, horizontal
35 brushes carried by said framework above said plates, and means for periodically reversing the rotary movement of said horizontal brushes.

4. In a mechanism of the class described,
40 the combination with a framework, of pairs of horizontal slide-supports, slides carried by said slide-supports, rotatable brushes carried by each of said slides, a horizontally
45 and vertically movable support positioned between each pair of said slides and their brushes, and means for synchronously adjusting said slides.

5. In a mechanism of the class described,
50 the combination of a movable boot or shoe support, slides positioned upon opposite sides of said support, a standard carried by each of said slides, a vertical shaft journaled upon said standard, a brush fixedly secured
55 to said shaft, a pulley fixedly secured to said shaft, a belt connecting said pulleys, means for driving said belt, and means for synchronously adjusting said slides relative to said boot support.

6. In a mechanism of the class described,
60 the combination with a framework, of boot or shoe supports carried by said framework, horizontal brushes carried by said framework and positioned above said boot or shoe
65 supports, means connected to said brushes

for rotating them synchronously, and means for periodically reversing the rotary movement of said brushes.

7. In a mechanism of the class described, the combination with a framework, of a
70 wheel provided with a cam groove, carried by said framework, a movable shaft positioned above and adapted to move down in the cam groove of said wheel, a support secured to said shaft, a horizontal movable
75 plate carried by said support, means for rotating said wheel and thereby moving said shaft, and a brush positioned contiguous to said plate.

8. In a mechanism of the class described, the combination with a framework, of a
80 horizontal wheel provided with a cam groove, carried by said framework, a vertically movable shaft positioned above and being capable of moving down in the groove of said cam wheel, a grooved support fixedly
85 secured to the upper end of said shaft, a horizontally movable plate positioned within the grooved portion of said support, means for rotating said wheel and thereby
90 moving said shaft, and a brush positioned contiguous to said movable plate.

9. In a mechanism of the class described, the combination with a framework, of a
95 horizontal wheel carried by said framework, said wheel being provided with a cam groove, a vertically movable shaft carried by said framework, a wheel secured to said shaft, said wheel normally in engagement
100 with said first mentioned wheel and capable of traveling within its cam groove, a horizontal support fixedly secured to the upper end of said shaft, a reciprocating plate carried by said support, means for synchro-
105 nously rotating said first mentioned wheel and horizontally moving said plate, and a brush secured contiguous to said plate.

10. In a mechanism of the class described, the combination with a framework, of a
110 plurality of transversely movable slides carried by said framework, rotatory brushes carried by said slides, a disk secured contiguous to the central slides, said disk being provided with cam slots, pins carried by
115 said central slides and extending through the cam slots of said disk, a rod connecting each of said pins and an outer slide, a lever carried by said framework and pivotally secured to said disk, a revoluble shaft carried
120 by said framework, and an arm carried by said shaft and pivoted to said lever.

11. In a mechanism of the class described, the combination with a framework, a sup-
125 port carried thereby, of a plurality of transversely movable slides carried by said framework, rotatable brushes carried by said slides, rods, each rod connected to two of said slides, and means for synchronously ad-
130 justing said rods and thereby moving said slides.

12. In a mechanism of the class described, the combination with a framework, of a boot or shoe support carried by said framework, a vertical and a horizontal brush carried by said framework contiguous to the ends of said support, laterally adjustable brushes carried upon said framework contiguous to the sides of said support, means for synchronously rotating all of said brushes, and means for reversing movement of said horizontal brush.

13. In a mechanism of the class described, the combination with a framework, of a vertically and horizontally movable boot or shoe support carried by said framework, a vertical, stationary brush carried by said framework contiguous to the heel portion of said support, a horizontal brush carried by said framework above said support, slidable brushes positioned upon said framework contiguous to the sides of said support, means for synchronously rotating all of said brushes, and means for reversing movement of said horizontal brush.

14. In a mechanism of the class described, the combination with a framework, of horizontally movable slides carried by said framework, means connecting said slides for moving the same synchronously, a pair of movable shoe supports carried by said framework, each shoe support having a slide positioned on each side thereof, a lever carried by said framework and connected to said means for operating the same, a brush carried by each of said slides, and means for actuating said lever for adjusting said slides.

15. In a mechanism of the class described, the combination with a framework, of horizontally movable slides carried by said framework, a cam disk carried by said framework, means connecting the cam construction of said disk with said slides, moving said slides when said disk is moved, a lever fulcrumed upon said framework and pivotally connected to said disk means for moving said lever, brushes carried by said slides, and shoe supports carried by said framework, and positioned contiguous to said brushes and slides.

16. In a mechanism of the class described, the combination with a framework, of movable slides carried by said framework, a disk provided with cam slots, pins carried by the central slides and extending through the cam slots of said disk, means connecting each of said pins and an outer slide, means for actuating said disk and thereby adjusting said slides, a brush carried by each of said slides, and supporting means carried by said framework and positioned contiguous to said brushes and slides.

17. A mechanism of the class described, comprising a frame-work, reciprocating shoe supports carried by said framework,

means for vertically moving said supports, laterally movable slides carried by said frame-work contiguous to said supports, a brush carried by each of said slides, and means connected with said slides for adjusting the same.

18. In a mechanism of the class described, the combination with a framework of a vertically movable shoe support, means for moving said support, a vertically positioned brush carried by said framework contiguous to said support, a horizontally mounted brush carried by said framework above said support, and means for driving and reversing the movement of said horizontally mounted brush.

19. In a mechanism of the class described, the combination of a frame work, brush carrying slides, a vertically disposed rotatable regulating shaft, means connecting said slides and shaft for adjusting said slides when rotary movement is imparted to said shaft, a brush carried by each of said slides, a shoe-support positioned contiguous to said brushes and means for rotating said brushes.

20. In a mechanism of the class described, the combination with a frame-work, of a horizontal wheel provided with a rim, said rim, being provided with a cam groove, a vertically movable member normally engaging said rim, and capable of traveling in the grooved portion thereof, a longitudinally movable plate supported upon said movable member, means for rotating said wheel and moving said plate, and a rotatable brush carried by said frame-work, and positioned contiguous to said plate.

21. In a mechanism of the class described, the combination with a framework, of a horizontal cam wheel carried thereby, a vertically movable shaft carried by the framework and normally resting upon the wheel, a horizontally movable shoe support carried by the shaft, brushes carried by the framework, means for moving said brushes, and means for reciprocating the shoe support for moving a shoe positioned on said support whereby each of said brushes is adapted to act on different parts of said shoe.

22. In a mechanism of the class described, the combination with a framework, of a shoe support, a wheel provided with a cam-groove carried by said framework, a movable shaft positioned above said wheel and adapted to move down in the cam-groove of said wheel said shaft being secured to said shoe support, means for rotating said wheel for raising and lowering said shaft and brushes positioned contiguous to said support.

23. In a mechanism of the class described, the combination with a framework, of a wheel carried by said framework, said wheel being provided with a cam-groove, a vertically movable shaft carried by said frame-

work, a wheel secured to said shaft, said wheel normally engaging said first-mentioned wheel and capable of engaging said cam-groove, a support fixedly secured to the upper end of said shaft, a reciprocating plate carried by said support and a brush secured contiguous to said plate.

24. In a device of the character described the combination with a framework of cleaning and polishing brushes, a shoe support, means for reciprocating said shoe support, means for rotating said brushes, a cam, means for connecting said cam with said shoe support whereby said shoe support is lowered at predetermined intervals, means for spraying polish upon the shoe placed upon said shoe support when said shoe support is lowered by said cam.

25. In a mechanism of the class described, the combination with a framework, of cleaning and polishing brushes, a shoe support, means for reciprocating the shoe support, means for rotating the brushes, means for

lowering the shoe support at predetermined intervals, and means for spraying polish upon a shoe placed upon the support when in its lowered position.

26. A mechanism of the class described, comprising horizontally reciprocating supports, power driven means for automatically raising and lowering said supports, brushes positioned contiguous to said supports, means for revolving said brushes, pipes partly surrounding said supports for spraying polish on shoes positioned on said supports, and means operated in timed relationship to the movement of the support for turning on a polish in said pipe when said supports are lowered.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

EDWARD EVANOUS LINEBACK.

Witnesses:

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HENRY L. CARTER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."