July 22, 1941. L. M. HELTON 2,250,224

GOLF BALL REPAINTING MACHINE

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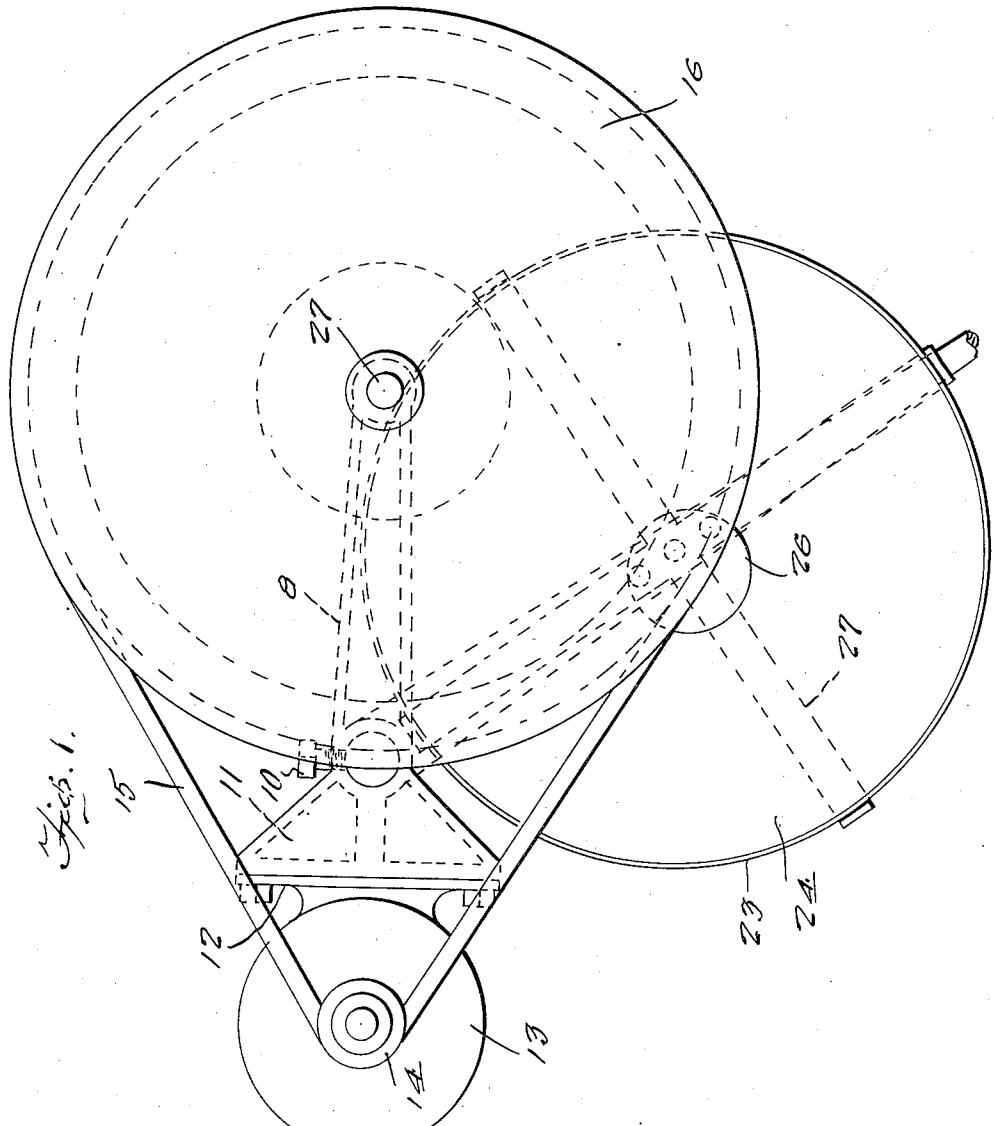


Fig. 1.

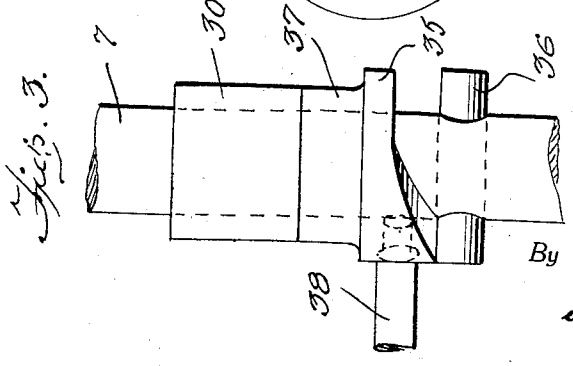


Fig. 3.

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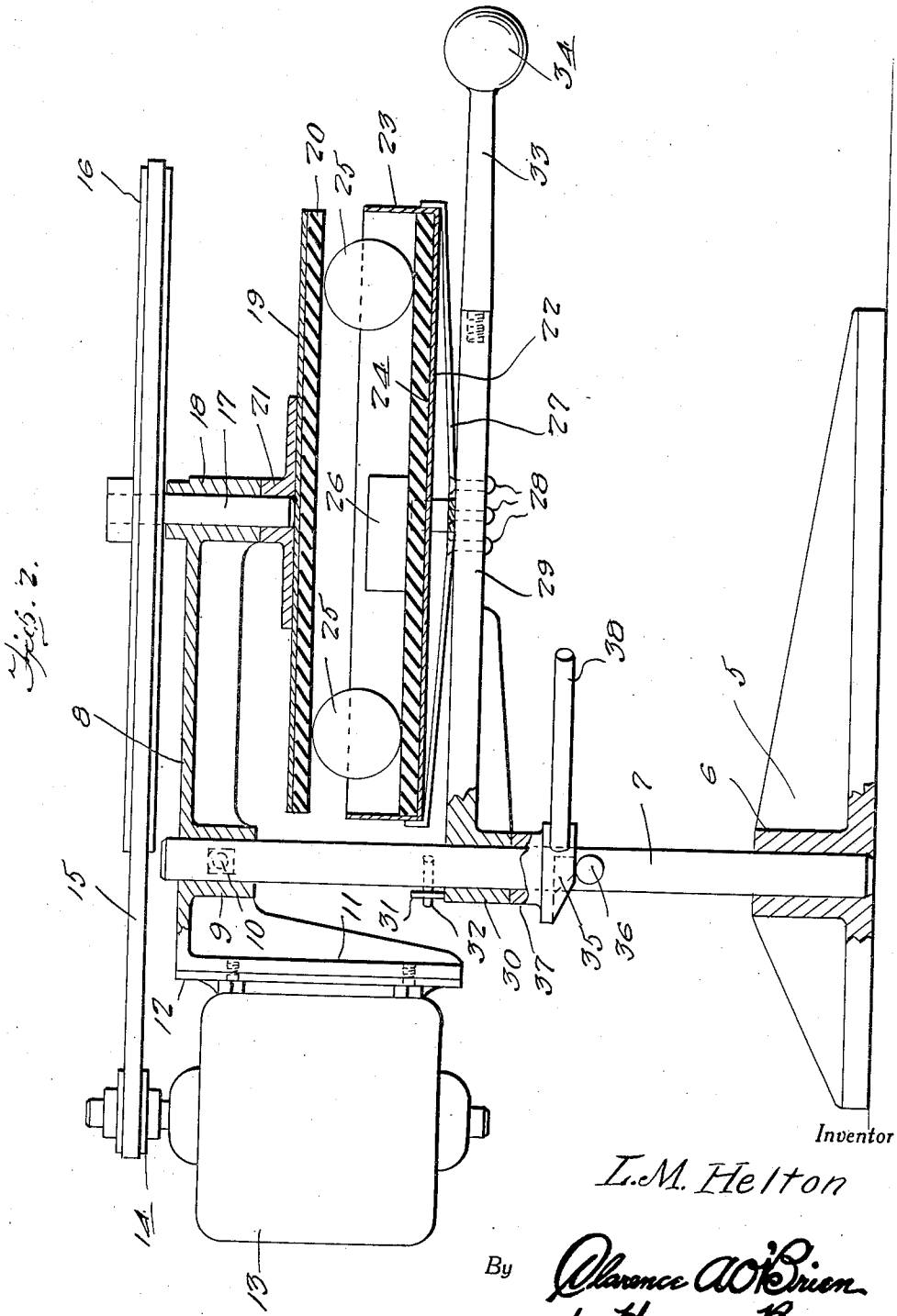
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GOLF BALL REPAINTING MACHINE

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GOLF BALL REPAINTING MACHINE

Lloyd M. Helton, South Bend, Ind.

Application June 17, 1939, Serial No. 279,747

3 Claims. (Cl. 91—18)

This invention relates to new and useful improvements in machines whereby spherical articles can be painted or coated in a quick and convenient manner.

The principal object of the present invention is to provide a machine for painting balls or other spherical articles and more particularly golf balls wherein the balls are rolled in such a manner as to thoroughly paint the same while at the same time preventing the formation of paint rings on the balls due to centralized crowding.

These and other objects and advantages of the invention will become apparent to the reader of the following specification.

In the drawings:

Figure 1 represents a top plan view of the machine with the lower tray swung to a lateral position.

Figure 2 is a vertical sectional view through the machine.

Figure 3 is a fragmentary side elevational view of the lift means for the ball tray.

Referring to the drawings wherein like numerals designate like parts, it can be seen that numeral 5 represents the base, suitably reinforced and formed with the hub structure 6 into which fits the lower end of the post 7. Numeral 8 represents a head structure, the same having the socket 9 for receiving the upper end of the post 7, and a set screw 10 is disposed through the socket 9 and can be driven against the post 7 to hold the head structure 8 in a proper position on the upper portion of the post 7.

A downwardly disposed bracket structure 11 is provided at one end of the head structure 8 and to this is secured the base structure 12 of the electric motor 13. The upper end of the armature shaft of the motor 13 carries the pulley 14 over which the drive belt 15 is disposed.

This belt 15 is also trained over the large pulley wheel 16 on the stub shaft 17, this stub shaft 17 being journaled through the bearing 18 on the opposite end of the head structure 8 from the bracket 11.

A disk 19 having a disk-shaped rubber bottom plate 20 secured thereto is also provided with the hub structure 21 centrally located on the top side thereof for receiving the lower end of the shaft 17.

Numeral 22 represents the tray structure which has an upstanding side wall 23. A disk-shaped pad or plate 24 of rubber is disposed on the bottom of the tray 22 and upon this sits the golf ball 25. Eccentrically located adjacent the center of the bottom of the tray 22 is the circular block 26 of wood or some other suitable substance which prevents the ball 25 from crowding at the central portion of the tray.

The tray 22 is supported by leaf springs 27 which extend outwardly to the side wall 23 from the anchoring members 28. One end of the arm 29 through which the anchoring means 28 are disposed has the collar 30 through which the post 7 extends. This collar 30 has the upstanding pin 31 which is adapted to be stopped against the lug 32 projecting from the post 7 as when the arm 29 has been swung to set the tray 22 under the disk 19.

A removable arm 33 is attachable to the outer end of the arm 29 and has the hand knob 34 at its free end.

To permit raising and lowering of the tray 22, a cam 35 of annular construction is disposed on the post 7 and is adapted to ride against the cross pin 36 disposed through the post 7. The cam 35 has the upwardly disposed sleeve 37 which rides against the lower end of the collar 30. An elongated hand rod 38 extends outwardly from the cam 35.

Obviously when the arm 29 has been swung to a position where it has been stopped by the pin 31 and lug 32, the cam 35 can be rotated so as to lift the collar 30 and arm 29 with the result that the tray 22 is lifted so that the balls 25 are snugly interposed between the rubber disks 20 and 24.

Obviously, to place the balls in the lower tray, the cam 35 is operated to drop the lower tray, after which it is swung laterally by the handle 33. The tray 23 is now in a position where it can be removed from the springs 27 to permit displacement of the painted balls and placement of more balls therein, and perhaps a replenishment of paint, which is simply poured into the lower tray to a level at approximately one-half of the depth of the tray.

While the foregoing specification sets forth the invention in specific terms, it is to be understood that numerous changes in the shape, size and materials may be resorted to without departing from the spirit and scope of the invention as claimed hereinafter.

Having described the invention, what is claimed as new is:

1. A spherical article painting device comprising a base, a standard rising from the base, a super-structure on the standard, a motor carried by the super-structure, a lowerable tray on the standard, a rotary plate carried by the super-structure, drive means between the motor and the

rotary plate, said plate being of resilient material, said tray being adapted to contain spherical articles to be coated, said tray when in elevated position being adapted to hold the balls between the bottom of the tray and the rotary plate, and cam means on the standard for raising and lowering the said tray.

2. A spherical article painting device comprising a base, a standard rising from the base, a super-structure on the standard, a motor carried by the super-structure, a vertically movable tray on the standard, a rotary plate carried by the super-structure and driven by the motor, said plate having a resilient portion, said tray being adapted to contain spherical articles to be coated, means for elevating the tray to a position holding the spherical articles against the plate.

3. A spherical article painting device comprising a base, a standard rising from the base, a super-structure on the standard, a motor carried by the super-structure, a vertically movable tray on the standard, a rotary plate carried by the super-structure and driven by the motor, said plate having a resilient portion, said tray being adapted to contain spherical articles to be coated, means for elevating the tray to a position holding the spherical articles against the plate, said means for holding the tray consisting of an abutment on the standard, a collar on the tray slidable on the standard and a cam interposed between the abutment and the collar.

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