March 31, 1931. C. FLOYD ET AL 1,798,322

GOLF BALL WASHER

Filed April 9, 1928

Fig. 1.

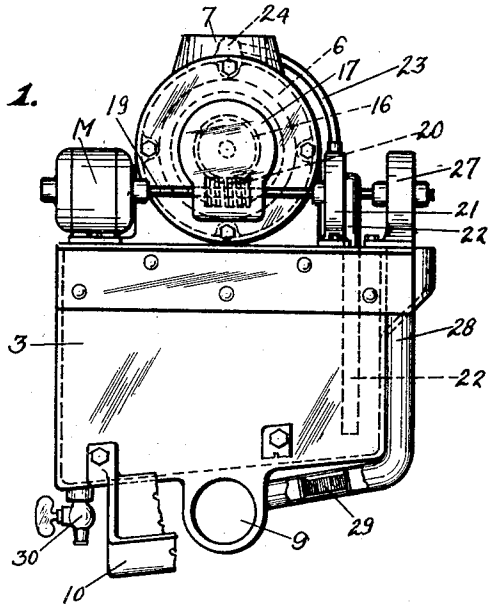
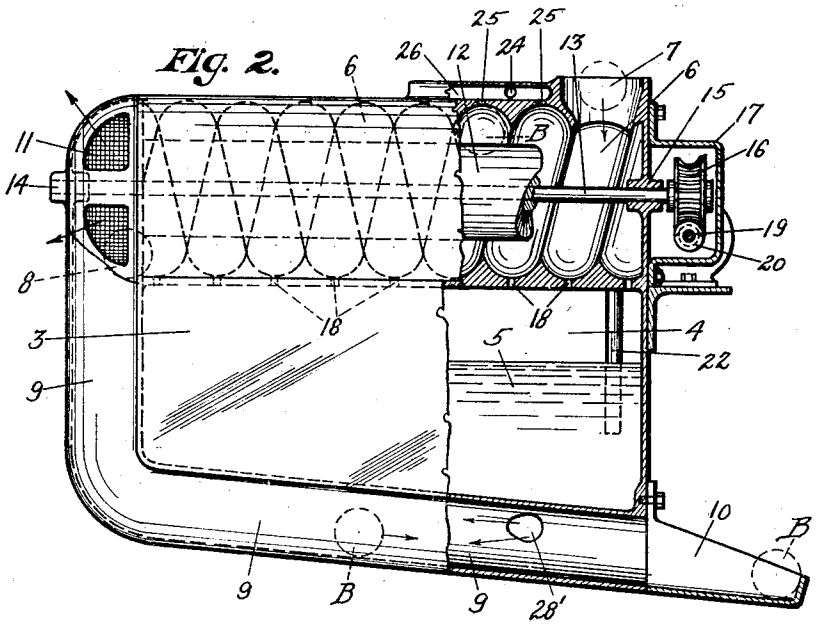


Fig. 2.



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GOLF-BALL WASHER

Application filed April 9, 1928. Serial No. 268,676.

Our invention relates to golf ball washers, and it has among its salient objects to provide a simple, practical and highly efficient machine for quickly and thoroughly washing and drying golf balls; to provide a machine into which the balls can be fed and through which they pass, being subjected to a washing and drying process as they move through the machine; to provide in such a machine of the character referred to means whereby said balls must follow a spiral course of travel one after the other, all the time being subjected to the scrubbing action of a brush, and after which they are subjected to an air blast of heated air which thoroughly dries them as they move to the place of discharge in said machine.

In order to explain our invention, we have illustrated the same on the accompanying sheet of drawings, in which—

Figure 1 is a side elevation of a machine embodying our invention, with a part shown in vertical section in order to show the interior construction and arrangement; and

Figure 2 is an end elevation from the right hand end of Fig. 2, with a part of the receiving tray broken away.

Referring now more in detail to the drawings, our invention as here embodied, includes a housing or box 3, in which is a reservoir 4, for washing liquid 5, and in the top of said box is a spiralled chamber 6, with an inlet 7, thereto, and a discharge therefrom at 8, into a conduit 9, extending down around the box and under the box or housing 3, where it terminates in a receiving tray 10. The discharge end of said spiralled chamber is covered with a screen 11. Mounted through said spiralled chamber 6, is a brush 12, on a shaft 13, having bearings at 14 and 15, in the opposite ends of the housing, said shaft being extended at one end and provided with a worm gear 16, in a housing therefor, designated 17. At the bottom of each spiral is a drain opening or outlet 18. The diameter of the brush relative to the spiralled chamber in which it revolves is such that there is room for a golf ball in the spiral, whereby said golf balls are held in alinement one after the other around the brush and in the spiral, the revolving brush causing the balls to move around and around through the spiral from one end thereof to the other and at the same time being brushed and turned by the contact of the brush therewith as they are thus propelled through the machine.

A motor M, is mounted on the housing, with a drive shaft 19, extended therefrom across the end of the machine and provided with a worm 20, driving the worm gear 16, in the housing 17, on the end of the housing. Said motor shaft 19 is extended to drive a pump 21, having an intake pipe 22 extended down into the reservoir 4, to the washing liquid 5, and a discharge pipe 23, extended to and discharging into the upper part of the spiralled chamber 6, as at 24, and into the upper part of spiralled chamber 6, through the ports 25, from the chamber 26, into which the pump directly discharges the washing liquid as it is pumped from the reservoir. Said motor shaft also drives a blower 27, mounted on the housing 3, as clearly shown, with a discharge pipe 28 leading therefrom and connected with the conduit 9, as at 28'. In said discharge pipe 28, is a heating element 29, such as an electric coil, whereby the air forced through said pipe 28 by the blower 27, is heated as it is conveyed to the conduit 9, and discharged thereinto, as at 28', in a direction which is in a direction contrary to the direction of movement of the balls moving down through said conduit from the spiralled chamber, as indicated by the light broken lines and the arrows. The golf balls are designated B and are shown in light broken lines. A drain outlet 30 is provided at the lower corner of the box or housing 3.

The use and operation of our invention may be briefly described as follows: The golf balls B are fed into the spiralled chamber 6, at the receiving opening at 7, and follow the spiral as the brush 12 is driven by the motor in a direction to cause said balls to travel toward the discharge at 8 and down through the conduit 9. The pump is circulating the washing liquid from the reservoir 4, to the narrow chamber 26, where it runs into the spiralled chamber 6, and onto the balls therein and the brush, and finally back into the

reservoir 4, through the outlet openings 18 at the lower side of the spiralled chamber. At the same time the fan or blower 27 is being operated to force air through the conduit 9, and around the heating element 29, for drying the balls as they move to the receiving tray 10, from which they can be gathered.

We do not limit our invention to the details of construction and arrangement as here shown for illustrative purposes, except as we may be limited by the hereto appended claims.

We claim:

1. In a machine of the character referred to, a chamber having its inner wall in the form of a spiralled channel, a cylindrical brush rotatably mounted in said chamber, an inlet for articles to be washed, means for supplying a washing liquid to said chamber, and means for driving said brush.

2. In combination, a chamber having its inner wall formed as a spiralled channel, a brush extending axially through said chamber with space in the channel around the brush for articles to be washed, a conduit from the discharge end of said chamber, means for circulating a washing liquid through said chamber, and means for forcing air through said conduit in a direction opposite to the movement of the articles washed.

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