Nov. 4, 1930. C. W. STRONG 1,780,850

GOLF BALL WASHER

Original Filed Aug. 31, 1927

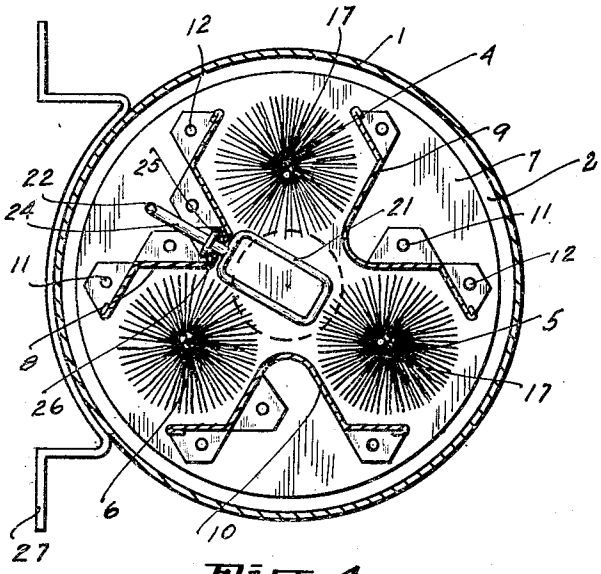


Fig. 4

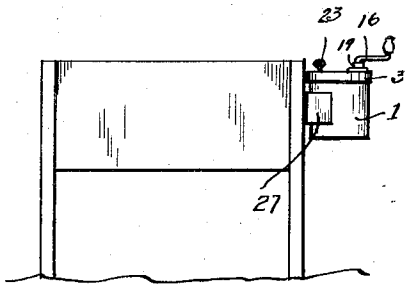
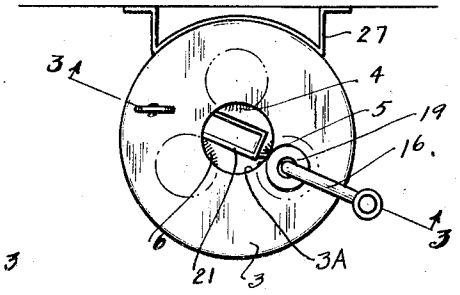


Fig. 2



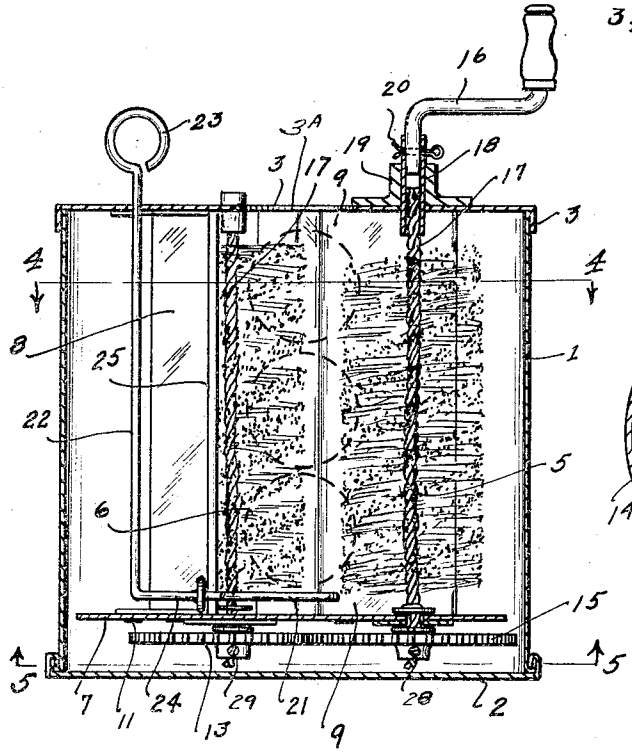


Fig. 3

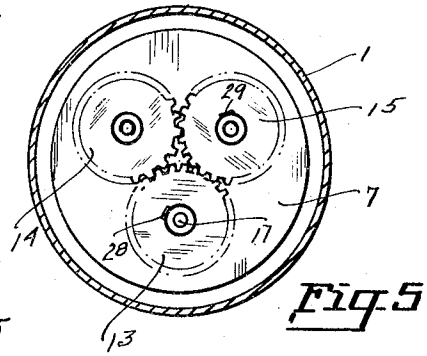


Fig. 5

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UNITED STATES PATENT OFFICE

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GOLF-BALL WASHER

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My invention relates to improvements in golf ball washers, the same consisting primarily of a liquid holding container; a multiple of bristle carrying elements vertically disposed within the container; means adapted to maintain the bristle carrying members in their relative positions; means for imparting a rotating movement to each of the bristle carrying elements and means for the removal of the ball after the same has been washed, from the device.

The primary object of my new and improved golf ball washer, consists in providing a simple and efficient device to be placed upon the tee boxes located on the tees of golf courses, the same being adapted to being manipulated by the golf player in the cleaning of the balls during the course of play.

A further object of my invention consists in providing a device that is simple in its operation, efficient in the results that it obtains, in the cleaning of the balls from deposits upon the outer surface thereof, one that may be operated over relatively long periods by people inexperienced with mechanical devices and one that will not easily get out of order and repair.

A still further object of my device consists in providing a device for the washing of golf balls that will quickly clean the ball and after the same has been cleaned to provide simple means for the removal of the cleansed ball from the device.

With these and incidental objects in view, the invention consists in certain novel features of construction and combination of parts, the essential elements of which are set forth in the appended claims, and a preferred form of embodiment of which is hereinafter shown with reference to the drawings which accompany and form a part of this specification.

In the drawings:

Fig. 1 is a side elevation of one of my new and improved devices, positioned upon a stand to maintain the same.

Fig. 2 is a top, plan view, of the assembled device.

Fig. 3 is a longitudinal, sectional view, the same being taken on line 3—3 of Fig. 2, looking in the direction indicated.

Fig. 4 is a horizontal, sectional view, the same being taken on line 4—4 of Fig. 3, looking in the direction indicated.

Fig. 5 is an inverted, sectional, plan view, the same being taken on line 5—5 of Fig. 3, looking in the direction indicated.

Like reference characters refer to like parts throughout the several views.

I preferably form my device of a liquid holding body 1, preferably made of sheet material having a bottom 2, disposed upon the underside thereof. A closure 3 forms the top and is adapted to be removed from the body 1. The closure 3 is provided with a central opening 3A of sufficient width to admit of a golf ball to pass therethrough. A plurality of bristle elements 4, 5 and 6 are vertically disposed within the device and are concentrically arranged relative to the center of the device. The lower end of each bristle element is journaled within the base 7, and the upper end thereof is journaled in the closure 3. The base 7 and the closure 3 are secured together by suitable structural elements 8, 9 and 10, depending from the closure. Since the bristle carrying elements are subject to wear and disintegration, due to the large amount of work to be done by them, it is necessary to replace the bristle elements from time to time, and to accomplish this result, the base 7 is removably secured to the lower end of the structural elements 8, 9 and 10. The base 7 is secured relative to the structural elements by elements 11 and 12 which are preferably screws or the like, and are not shown in detail. Disposed upon the lower end of each of the central shafts of the bristle elements are coacting gears 13, 14 and 15, and a crank 16 is removably secured to the upper end of one of the bristle elements, the same is secured to the central shaft 17 of said bristle element, by a collar 18, the same being journaled within a suitable bearing 19, disposed upon the closure 3. The crank 16 is removably secured to the collar and is secured by any suitable fastening means, as by a cotter key 20. As the shaft 17 is revolved, the gear 15 disposed upon the lower end of the shaft 17 and is also revolved, and since the gears 13, 14 and 15 coact with each other, as

the gear 15 is driven by the turning of the crank, each of the other gears associated therewith are driven, and, therefore the spindles or shafts of the bristle elements are also driven and the bristle elements rotated. It is customary to fill the body 1, with a soapy fluid and the balls are dropped therein through the opening 3A where they are engaged by the bristle elements as they revolve. The balls are revolved and cleansed as the outer surface thereof contacts with the bristle elements.

I have found best results obtain where one or more balls are placed within the cleaner at one time, the same resting upon the removing lift 21. The lift 21 has a vertically disposed shaft 22 terminating in its upper end in a hand engaging ring 23, the same has a foot disposed upon its lower end upon which the lower ball normally rests. The lower horizontal portion 24 of the lift, passes between guideways 25 and 26, which normally maintain the same in position and alignment. A bracket 27 is disposed upon one side of the body element 1, and is adapted to be positioned upon the support and maintained thereby, the same being removably secured to the support by any suitable fastening means. The gears are held in position upon the central shafts of the bristle elements by removable pins 28 and 29 to permit removal of the base 7 when it is found desirable to renew or replace the bristle elements.

While the form of mechanism herein shown and described is admirably adapted to fulfill the objects primarily stated, it is to be understood that it is not intended to confine the invention to the one form of embodiment herein shown and described, as it is susceptible of embodiment in various forms, all coming within the scope of the claims which follow:

What I claim is:—

1. In a device of the class described, the combination of a liquid holding body, a removable closure adapted to the top of the body and having an opening therein, a base disposed within the body, suspending elements disposed between the closure and the base, means removably securing said base to the suspending elements, a multiple of bristle elements vertically disposed within the body and journaled in the base and closure, common driving elements for the bristle elements, and means for removing golf balls from the body through the opening in said closure.

2. In a device of the class described, the combination of a cylindrical liquid holding body having a fixed bottom and a removable closure provided with an opening therein, a base suspended from the closure, a multiple of bristle elements journaled between the base and the closure and relatively disposed to provide a channel therebetween adapted for the reception of golf balls, a driving element common to said bristle elements, and means movable in said channel adapted for removing said golf balls through the opening in the closure.

3. In a device of the class described, the combination of a cylindrical liquid holding body having a fixed bottom and a removable closure on the opposite end of the body, said closure being provided with a centrally disposed opening formed therethrough, depending elements secured at their upper ends to the closure, a base removably secured to the lower ends of the depending elements, revolvable bristle elements each having one end journaled in the closure and the other end journaled in the base, coacting gears removably secured to the lower ends of the bristle elements, a driving element common to the bristle elements and the coacting gears, a lifting element adapted to remove golf balls from the body through the opening in said closure, and means adapted to maintain the lifting element in position.

CHARLES W. STRONG.