

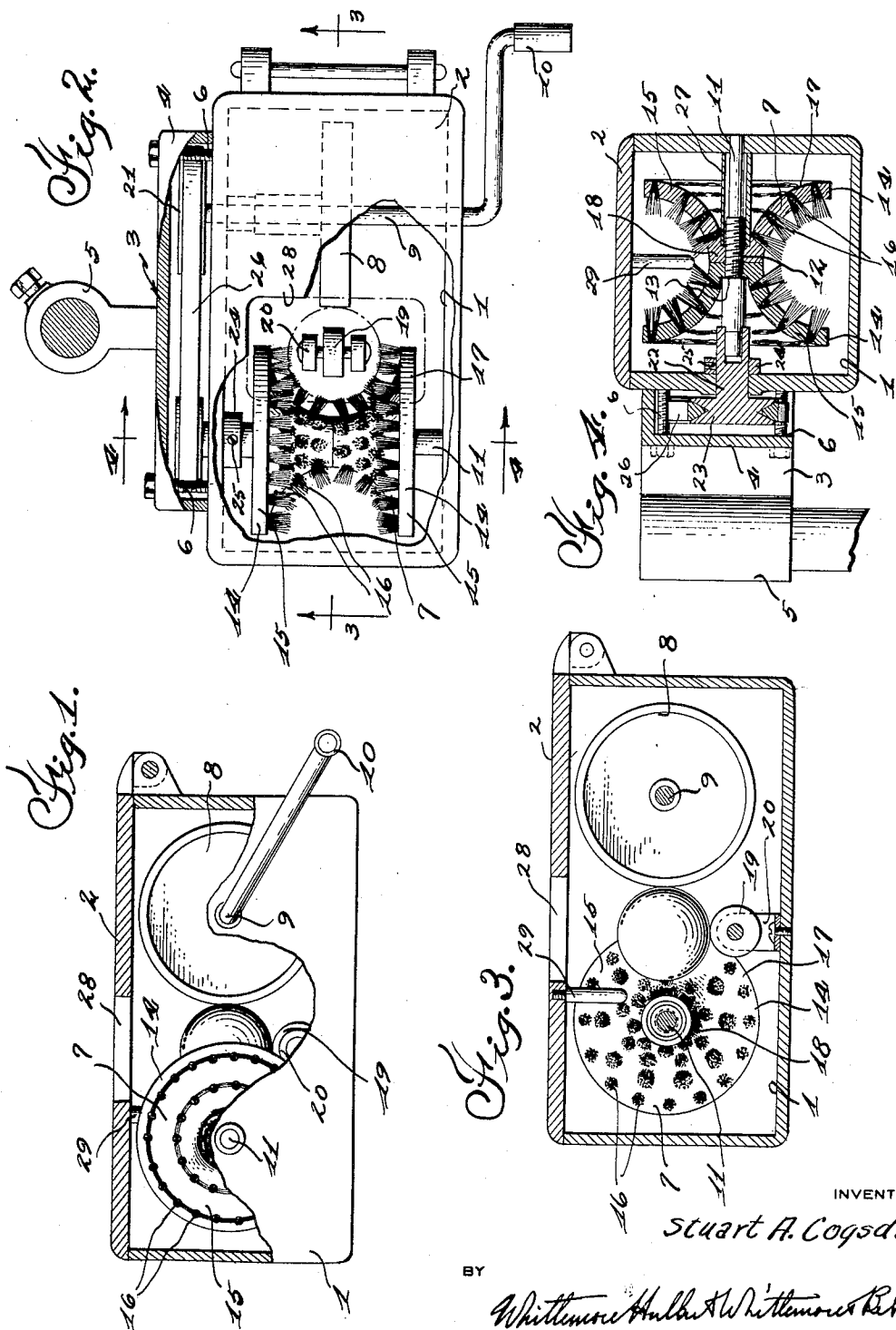
July 25, 1933.

S. A. COGSDILL

1,920,064

CLEANING DEVICE FOR GOLF BALLS OR THE LIKE

Filed March 19, 1930



INVENTOR

Stuart A. Cogsdill

BY

Whittemore Hulbert & Whittemore, Boston

ATTORNEYS

UNITED STATES PATENT OFFICE

STUART A. COGSDILL, OF DETROIT, MICHIGAN, ASSIGNOR TO COGSDILL MANUFACTURING COMPANY, OF DETROIT, MICHIGAN, A CO-PARTNERSHIP COMPOSED OF STUART A. COGSDILL AND FLORENCE MAY COGSDILL

CLEANING DEVICE FOR GOLF BALLS OR THE LIKE

Application filed March 19, 1930. Serial No. 437,122.

The invention relates to cleaning devices for golf balls or the like and has for one of its objects to provide an improved device which is very effective in removing grass stains, dirt and the like from the ball and which is built to withstand severe usage and to have long life. Other objects are to provide an improved brush or scrubber which is so made that its life is not affected by cleansing solutions; and to construct the brush and to so mount the same that it or its parts may be readily replaced. A further object is to house means for driving the brush outside the receptacle. Still other objects will become apparent from the following description and the drawing, in which:

Figure 1 is a front elevation, partly broken away, of a cleaning device for golf balls or the like, embodying my invention; Figure 2 is a plan view thereof, partly broken away;

Figures 3 and 4 are cross sections on the lines 3—3 and 4—4, respectively, of Figure 2.

The device showing an embodiment of my invention is designed particularly for cleaning golf balls and has the receptacle 1 and the cover 2 for the receptacle hinged at one end thereof. 3 is the receptacle supporting bracket having the rectangular body 4 and the hub 5. This bracket is secured to one side wall of the receptacle by suitable means, such as the bolts 6, which extend through the ends of the body 4 and are threaded into the rear side wall. The hub 5 is adapted to be sleeved over a suitable standard and secured thereto by suitable means, such as a set screw threaded through a wall of the hub and engaging the standard. 7 is the rotatable brush or scrubber housed within the receptacle and 8 is the rotatable retainer in the nature of a metal disk having a flanged periphery. This retainer is also housed within the receptacle and is fixed upon the shaft 9, which extends transversely through and is journaled in the side walls of the receptacle. This shaft terminates at the front side of the receptacle in the handle 10, which is formed by bending the shaft.

The brush 7 is mounted upon the shaft 11, which extends parallel to the shaft 9 and is supported in the side walls of the receptacle. This shaft, as shown, has one end journaled in the front side wall of the receptacle; has intermediate its ends the threaded portion 12; and has adjacent the rear end of the threaded portion the annular shoulder 13. The brush comprises the pair of brush members 14, each of which is formed of the metal back 15 and the animal bristles 16 secured to this back. Each back has the disk 17 and the hub 18 and each hub is internally threaded to be screwed upon the threaded portion 12 of the shaft 11. These backs are mounted upon the shaft so that their hubs extend toward and are adapted to contact with each other; and the bristles, which are secured to both the disks and the hubs, extend toward each other and their free ends cooperate to form an annular groove for receiving the golf ball. The backs are preferably concave so that the bristles extending therefrom may all be of substantially the same length. It is to be noted that the backs are formed with apertures into which the bristles extend, these bristles being secured in place by wire.

The brush 7 and the retainer 8 are both rotated in corresponding directions, but the brush is rotated at greater angular velocity than the retainer so that upon clockwise rotation of the brush and retainer the golf ball will be carried downwardly therebetween until its downward motion is arrested by means of the stop 19 in the nature of a roller journaled between the furcations 20 extending upwardly from the bottom of the receptacle. It will be seen that the retainer holds the golf ball in contact with the bristles of the two brush members and at the same time causes this ball to rotate, so that all parts thereof are brought into contact with the bristles for cleaning.

To rotate the brush with the retainer the rear end of the shaft 9 has secured thereto the pulley or sheave 21 located outside the receptacle and the rear end of the shaft 11 is connected to the coupling sleeve 22, which extends through the rear side wall of the

receptacle and is journaled therein and has the pulley or sheave 23 fixedly secured to its rear end outside the receptacle. The front end of this sleeve is bifurcated and its
 5 furcations engage flat faces formed upon the shaft 11. 24 is a collar encircling the sleeve 22 and fixedly secured in place as by means of the set screw 25 threaded into the collar and abutting the sleeve. Both the
 10 pulleys or sheaves 21 and 23 are located within the body 4 of the supporting bracket, this body being hollow. These pulleys or sheaves are connected to each other by the flexible member 26, which is preferably a
 15 rubber belt of triangular cross section.

27 is a sleeve encircling the front end of the shaft 11 and located between the front side wall of the receptacle and the front brush member. This sleeve limits the move-
 20 ment of the brush longitudinally of the shaft 11 in one direction, while the annular shoulder 13 upon this shaft limits the movement of the brush longitudinally in the other direction, so that the brush is posi-
 25 tively driven from the shaft in either direction of rotation of the latter.

The cover 2 is provided with the transversely extending opening 28 for inserting or removing the golf ball and has depending
 30 therefrom the stop 29 in the nature of a pin for engaging the golf ball upon rotating the brush in a counter clockwise direction and thereby limiting its return movement.

The parts located within the receptacle,

with the exception of the bristles, and the receptacle and the supporting bracket are formed of metal, so that the cleansing solu-
 tion and the weather will not affect these parts to any appreciable extent. The flex-
 70 ible member or belt, which is endless and runs over the pulleys or sheaves, is also protected from both the cleansing solution and the weather and provides an efficient drive for the brush. Furthermore, the construc-
 75 tion of the brush provides for very effective cleaning of the golf ball and makes possible long life of the brush under hard usage. At the same time provision is made for
 80 ready replacement of the brush.

What I claim as my invention is:

1. In a cleaning device for golf balls or the like, the combination of a rotatable shaft having a threaded portion intermediate its
 85 ends, a pair of brush members threaded upon the threaded portion and cooperating to embrace a ball, and means for preventing the movement of the brush members
 90 longitudinally of the shaft.

2. In a cleaning device for golf balls or the like, the combination of a rotatable shaft having a threaded portion intermediate its
 95 ends and a shoulder at one end of the threaded portion, a pair of brush members threaded upon said shaft, one of the brush
 100 members abutting the shoulder, the brush members cooperating to receive therebetween the ball.

STUART A. COGSWILL.

35

40

45

50

55

60

65

100

105

110

115

120

125

130