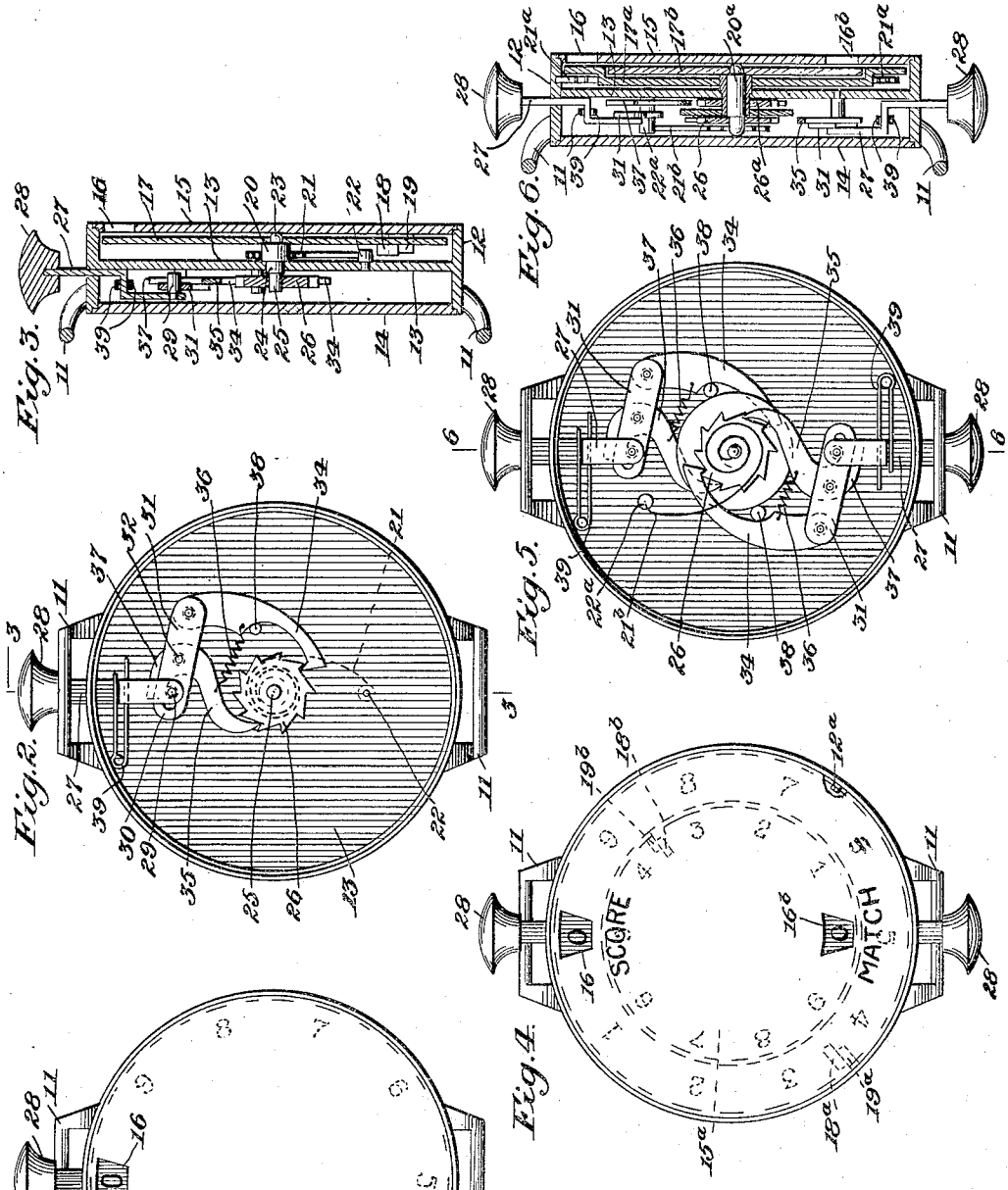
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GOLF REGISTER

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UNITED STATES PATENT OFFICE.

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GOLF REGISTER.

Application filed June 13, 1923. Serial No. 645,093.

This invention relates to an improvement specially designed for use in golf stroke indicators or registers of the class set forth in my Patents No. 1,358,698, dated November 16, 1920, and No. 1,454,263, dated May 8, 1923, and in my allowed applications Serial No. 437,198, filed January 14, 1921, allowed March 23, 1923, and Serial No. 465,872, filed April 30, 1921, allowed April 24, 1923, the present improvement comprising different means for accomplishing the results stated in said patents and applications.

The improved register is preferably adapted to be attached to the wrist of the player, or to the belt, or may, in the case of a lady player, be pinned to the shirt waist.

The principal object of the invention is to provide a simple means by which a registering dial or dials may be operated and may be returned to original positions.

In the accompanying drawing Fig. 1 is a front view of a simple form of the invention. Fig. 2 is a rear view of the same, and Fig. 3 is a section on line 3—3, Fig. 2. Figs. 4, 5 and 6 are views similar to Figs. 1, 2 and 3, illustrating what may be termed a double form of the invention, Fig. 6 being a section on line 6—6, Fig. 5.

Referring to Figs. 1, 2 and 3 of the drawing, the invention comprises a cylindrical casing part 12 which is preferably provided with loops 11 to hold a wrist strap or belt. A false bottom or diaphragm 13 divides the chamber within the casing into two compartments, one of which contains the dial 17 and the returning spring 21, and the other of which contains the dial operating mechanism. The two ends of the cylindrical chamber are closed by covers 14 and 15, which are preferably retained in place like a watch crystal. The upper or face cover 15 is provided with an opening 16 through which the numerals 0 to 9, inclusive, on the dial 17 are successively visible as the dial is turned. A lug 18 at the back of the dial comes into contact with another lug 19 on the false bottom 13 when the numeral 0 is visible through the opening 16. Thus the lug 19 acts as a stop for the dial when the latter is released from its holding means and is returned to its original position by the spring 21.

The dial 17 is securely attached to a spindle 20 to which is fastened one end of the coil spring 21. The other end of said spring is secured to a post 22 on the false bottom 13. An offset on the spindle acts as a spacer to keep the dial and the spring separated, and the slightly projecting and rounded end 23 of the spindle keeps the face of the dial from rubbing against the cover 15 and leaves it free to revolve with the offset part 24 of the spindle at its bearing in the false bottom 13. The spindle 25 carries a ratchet wheel 26 provided with teeth corresponding in number to the numerals on the dial 17.

Pivoted on a pin or post 32, fixed to the false bottom 13, is an operating lever 31 provided with a slot 30 entered by a pin 29 on a slide-bar 27 provided, outside the casing 12, with a head or button 28. Pivoted to the end of the lever 31, opposite that engaged by the pin 29, is an operating pawl 34 engaging the teeth of the ratchet wheel 26, said pawl being held in engagement with said ratchet wheel and against a post 38 on the false bottom 13, by a coil spring 36. Pivotally mounted on the pin or post 32 is a detent pawl 35 which is also held in engagement with the ratchet wheel 26 by the coil spring 36. The said detent pawl is provided with a tail piece 37 which is in contact with the pin 29.

The slide-bar 27, which is preferably constructed with an offset portion carrying the pin 29, as shown in Fig. 3, is engaged by a normally balanced double acting spring 39 which holds said slide-bar in the position shown in Fig. 2, with the pawls 34 and 35 in engagement with the ratchet wheel, 26, said spring returning these parts to this position after the slide-bar has been forced inward to cause the said ratchet wheel to be rotated the extent of one tooth by the pawl 34. When, however, it is desired to reset the dial 17, so that 0 will show through the opening 16 in the face plate 15, the slide-bar 27 will be pulled outward slightly against the stress of the spring 39, the pin 29, which is in engagement with the tail piece 37 of the detent pawl 35, then acting to move the said detent pawl out of engagement with the ratchet wheel 36, thereby permitting the spring 21 to return the said dial to its original position, with 0 showing through the opening 16. The outward pull on the slide bar 27 will cause the curved or cam-shaped inner edge of the pawl 34, by contact with the post 38, to release the said

pawl from the ratchet wheel 26 during the resetting operation.

Although the dial 15 is, in the present instance, shown as being provided with numerals from 0 to 9, inclusive, it will be understood that said dial may be furnished with a larger number of numerals to indicate the number of strokes for each hole being played, or for any other purpose.

In the form of the invention illustrated in Figs 4, 5 and 6 the dial 17^a, corresponding to the dial 17 in the form of the invention above described, has a recessed or countersunk face for the reception of a smaller dial 17^b, and the operating mechanism above deserибed is duplicated so that either of these dials may be operated as may be desired. The dial 17^b is, in this instance, provided with numerals from 0 to 9 inclusive, and is intended to be used to indicate the number of holes won by a player in a match game. The face plate 15 is provided with an opening 16^b through which the numerals on the dial 17^b may be seen.

The dial 17^b is attached to a spindle 20^a which rotates loosely within a sleeve 20^b mounted in the diaphragm or false bottom 13 and carrying the dial 17^a, and the ratchet wheel 26 for operating said dial is fixed to said sleeve. The dial 17^b is provided with a lug 18^b arranged to come in contact with a lug 19^b on the face plate 15, the lug 19^b serving as a stop to arrest the rotation of the said dial 17^a when the latter is being reversely rotated by spring 21^b in being reset to show 0 through the opening 16^b. The face plate 15 may be prevented from turning by any suitable means, as by being provided with a peripheral notch receiving a projection 12^a on the cylinder 12.

As shown in Fig. 6, the returning spring for the dial 17^a is connected with the casing 12 and the outer part of said dial.

From the foregoing it will be understood that the improved register may comprise either one or more dials provided with numerals and which dials may be operated and reset by the simple means herein described.

Having thus described my invention I claim and desire to secure by Letters Patent:

1. In a golf stroke register, the combination with a suitable casing, of a dial pivotally mounted within said casing and provided with numerals, said casing comprising a face plate having an opening through which said numerals may successively become visible as said dial is rotated, a ratchet wheel rotatable with said dial, a returning spring connected with said dial, a lever within said casing, an operating pawl for said ratchet wheel carried by said lever, a detent pawl normally preventing backward movement of said ratchet wheel under the influence of said returning spring, means for yieldingly holding said pawls in engagement with said ratchet wheel, a slide-bar connected with said lever and with both of said pawls and by the movements of which slide bar said ratchet-wheel may be operated and the detent pawl be disengaged from said ratchet wheel, and a double-acting, normally-balanced spring engaging said slide bar.

2. In a golf stroke register, the combination with a suitable casing, of a dial pivotally mounted within said casing and provided with numerals, said casing comprising a face plate having an opening through which said numerals may successively become visible as said dial is rotated, a ratchet wheel rotatable with said dial, a returning spring connected with said dial, a lever within said casing, an operating pawl for said ratchet wheel carried by said lever, a detent pawl normally preventing backward movement of said ratchet wheel under the influence of said returning spring, means for yieldingly holding said pawls in engagement with said ratchet wheel, said detent pawl having a tail piece, a slide bar provided with a pin engaging said lever and said tail piece and by the movements of which slide bar said ratchet wheel may be operated and the detent pawl be disengaged from said ratchet wheel, and a normally-balanced, double-acting spring engaging said slide-bar and serving to return said bar to its normal position when displaced therefrom by either an inward or outward manual movement.

3. In a golf stroke register, the combination with a suitable casing, of a dial pivotally mounted within said casing and provided with numerals, said casing comprising a face plate having an opening through which said numerals may successively become visible as said dial is rotated, a ratchet wheel rotatable with said dial, a returning spring connected with said dial, a lever within said casing, an operating pawl for said ratchet wheel carried by said lever, a detent pawl normally preventing backward movement of said ratchet wheel under the influence of said returning spring, said detent pawl having a tail piece, means for yieldingly holding said pawls in engagement with said ratchet wheel, a slide-bar provided with a pin engaging said lever and with which slide-bar both of said pawls are connected, said pin engaging said tail piece, a normally-balanced, double acting spring engaging said slide-bar and by the movements of which slide-bar said ratchet-wheel may be operated and the said pawls be disengaged from said ratchet wheel.

4. In a golf stroke register, the combination with a dial provided with numerals, of means for intermittingly rotating said dial, said means comprising a slide-bar, a double-acting normally balanced spring co-operating with said slide bar, and pawls operatively connected with said slide-bar, and

spring means for returning said dial to normal position; whereby, by the manual operation of said slide-bar said dial may be rotated or said pawls may be disconnected from said dial to permit it to be reset or returned to normal position.

5. In a golf stroke register, the combination with a rotary dial provided with numerals and a casing within which said dial is mounted, of a ratch-wheel operatively connected with said dial, a lever within said casing, operating and detent pawls, means for yieldingly holding said pawls in engagement with said ratchet-wheel, a returning spring for said dial, means for releasing both of said pawls from said ratchet-wheel when said rotary dial is to be returned, a slide-bar operatively connected with said lever and said pawls, and a double-acting, normally balanced spring engaging said slide-bar; whereby when said slide-bar is moved inward from its normal position said ratchet wheel will be advanced, but when said slide-bar is pulled outward from its normal position, against the stress of said double-acting spring, said rotary dial will be returned to its initial position.

6. The combination with a rotary member and a casing within which said member is mounted, of a ratchet-wheel operatively connected with said rotary member, a lever within said casing, operating and detent pawls, means for yieldingly holding said pawls in engagement with said ratchet-wheel, a returning spring for said rotary member, means for releasing both of said pawls from said ratchet-wheel when said rotary member is to be returned, a slide bar operatively connected with said lever and said pawls, and a double-acting, normally balanced spring engaging said slide bar; whereby when said slide-bar is moved inward from its normal position said ratchet wheel will be advanced, but when said slide-bar is pulled outward from its normal position, against the stress of said double-acting spring, said rotary member will be returned to its initial position.

In testimony whereof I affix my signature.

BERNHARD M. BESKOW.