No. 638,304. Patented Dec. 5, 1899.

E. B. WESTON.

REGISTER.

(Application filed Apr. 10, 1899.)

(No Model.)

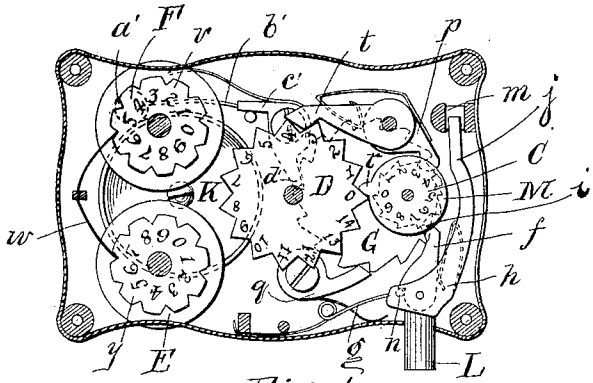


Fig. 1.

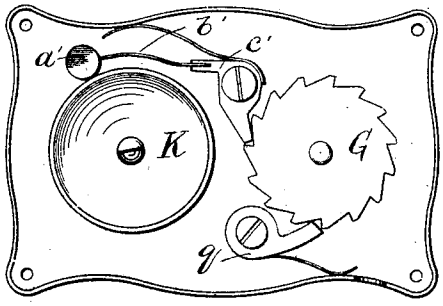


Fig. 2.

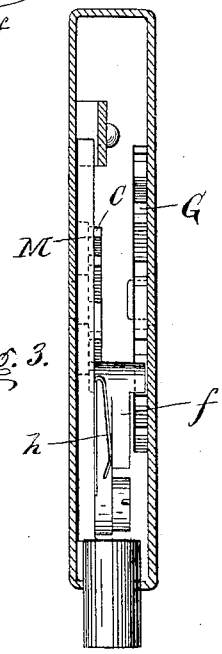


Fig. 3.

Fig. 4.

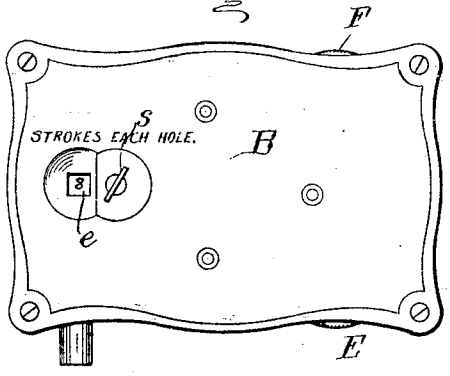
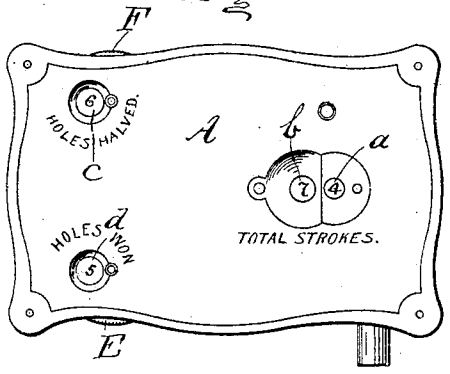


Fig. 5.



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UNITED STATES PATENT OFFICE.

EDWARD B. WESTON, OF DAYTON, OHIO.

REGISTER.

SPECIFICATION forming part of Letters Patent No. 638,304, dated December 5, 1899.

Application filed April 10, 1899. Serial No. 712,516. (No model.)

To all whom it may concern:

Be it known that I, EDWARD B. WESTON, a citizen of the United States, residing at Dayton, in the county of Montgomery and State of Ohio, have invented certain new and useful Improvements in Registers, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

My invention relates to registers more particularly for use in registering scores in the game of golf; and it consists of the certain novel construction and arrangement of parts to be hereinafter more particularly pointed out and claimed.

For a register for golf-scores it is of course essential that the various registering-wheels shall be so constructed and arranged as to occupy as little space as possible, while at the same time it is essential to register a number of different operations. It is required to keep an account of the total number of strokes for all the holes and the number of strokes separately for each hole, also in "hole-play" to register the number of holes won and the number of holes tied or "halved" with the opponent; and it is the purpose of my invention to provide for registering all of these points in a device of small and convenient size for carrying in the pocket and which shall at the same time announce by striking a bell when any stroke is registered. This I accomplish by so arranging the registering-wheels that the total scores and the score for each hole shall be registered on separate wheels simultaneously by a single push-button, the two wheels being arranged side by side and indicating their respective scores on opposite sides of the case, and by such disposition of the other registering-wheels and the bell that the entire working apparatus may be held in a case of such convenient size and shape as to be entirely suitable for the exigencies of the game.

In the drawings, Figure 1 is a front elevation of the working parts of my register on a section taken just within the front wall of the case. Fig. 2 is a similar view with the parts mounted in the front wall removed. Fig. 3 is an end view taken just within the case, somewhat enlarged. Fig. 4 is a front, and Fig. 5 a rear, view of the register.

A is the front, and B the rear, wall of the case, provided with top, bottom, and end flanges fitting together to form a case of convenient size and shape for carrying in the hand or pocket, the two halves of the case being fastened together by screws or otherwise at the corners. Mounted on the inside of the front wall are the registry-wheels C, D, E, and F, while mounted on the inside of the rear wall is the registry-wheel G and the bell K. The wheels C, D, E, F, and G bear numerals on their faces, one of which numbers for each operation is exposed through suitable openings *a*, *b*, *c*, *d*, and *e* for their respective sides of the case. The wheels C and G are ordinary ratchet-wheels, each so mounted to its respective wall that the teeth of one will coincide with the teeth of the other at one point.

f is a pawl pivoted to the push-button or operating-lever L and provided with a striking edge or face *i*, wide enough to contact with the teeth of both wheels C and G simultaneously when the push-button is actuated. The pushing-lever L is provided with an extension or arm *j*, which rides in the opening in the lug *m*, near the lower end of the case, to guide the push-button and movement of the pawl *f*, while *g* is a spring to return the push-button L to its normal position, and *h* is another spring bearing against the pawl, keeping it against the pin *n*, in position to actuate the registry-wheels, but allowing it to swing back as the ratchet-wheels rotate.

p and *q* are the usual dogs for preventing any back movement of the registry-wheels. The ratchet C is provided with a disk M for one face, carrying the lug *r*, which for each revolution of wheel C contacts with a tooth of the wheel D, thus advancing it one point, and as there are in the form illustrated fifteen teeth for this wheel D and ten teeth for wheel C these two wheels when the readings are taken together through the openings *a b* will register up to one hundred and fifty strokes, while a dog *t*, engaging with wheel D, prevents any back movement. The wheel G,

which is actuated simultaneously with wheel C, displays its registration through the opening *e* on the opposite side of the case.

It is intended that the total number of strokes for the course shall be registered on wheels C and D, while wheel G will register the separate strokes for each hole. In order, therefore, to set the wheel G at zero for each hole, I mount the key *s* on the spindle of this wheel, so that the wheel G can be turned by hand to zero at the commencement of each separate hole. In order that a score may also be kept of the number of holes won or tied in playing hole-play, I provide the registry-wheels E and F with milled peripheries, which extend through slots in the top and bottom of the case, so that they can be rotated. These wheels carry ratchets *v y*, engaged by the spring *w*, so that they can only move in one direction. The registry-numbers are mounted on the faces of the wheels and one at a time are displayed at the openings *c* and *d*, the spring *w* bearing on the ratchet-teeth and holding the wheels from chance rotation. In order that a single spring may be used to hold both of these wheels and prevent back movement, I arrange for rotating them in opposite directions, as shown.

The bell K is provided with a hammer *a'*, (shown in dotted lines, Fig. 1,) mounted on spring-arm *b'*, secured to the spring-pressed pawl *c'*. The other end of this pawl *c'* engages at *d'* with the teeth on wheel G, so that with every movement of the registry-wheels C and G the pawl will drop into the next succeeding tooth and the hammer will strike the bell.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a register, the combination, with the case having display-openings in opposite sides thereof, of a pair of ratchet registry-wheels carrying numerals on the opposite faces thereof which are displayed through said openings, said wheels being arranged in parallel planes, and an operating-lever with a single pawl mounted thereon engaging both of said registry-wheels simultaneously, substantially as shown and described.

2. In a register, the combination, with the case having display-openings in opposite sides thereof, of a pair of ratchet registry-wheels carrying numerals on the opposite faces thereof displayed through said openings, said wheels being arranged in parallel planes, and an operating-lever with a single pawl mounted thereon engaging both of said wheels simultaneously, and an arm on said operating-lever with a socket for receiving same, to act as a guide for the lever, substantially as shown and described.

3. In a register, the combination, with the case, of a units and tens wheel to register the total operations, an additional units-wheel mounted in a plane parallel with the total-registering wheels, and means for operating said pair of units-wheels simultaneously, an additional pair of separately-mounted registry-wheels rotating in opposite directions, with a single spring to prevent back movement thereof, and a bell, with spring-actuated hammer mounted on a pawl in contact with one of said simultaneously-operated units-wheels, whereby with each movement thereof the bell will be sounded, substantially as shown and described.

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Witnesses:
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