Sept. 2, 1930. A. BULOVA 1,775,066

WATCH AND GOLF SCORE

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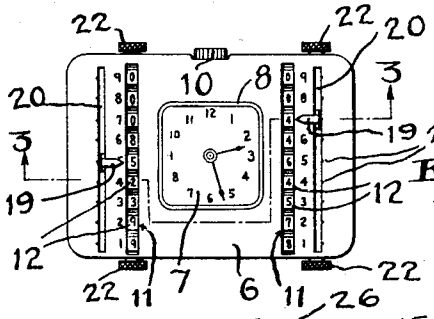


Fig. 1.

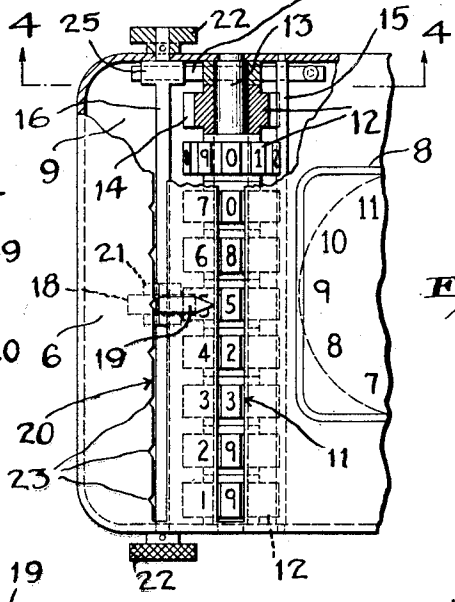


Fig. 2.

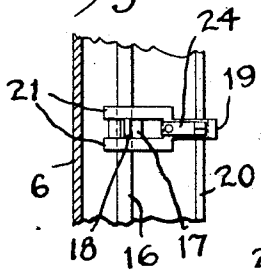


Fig. 5.

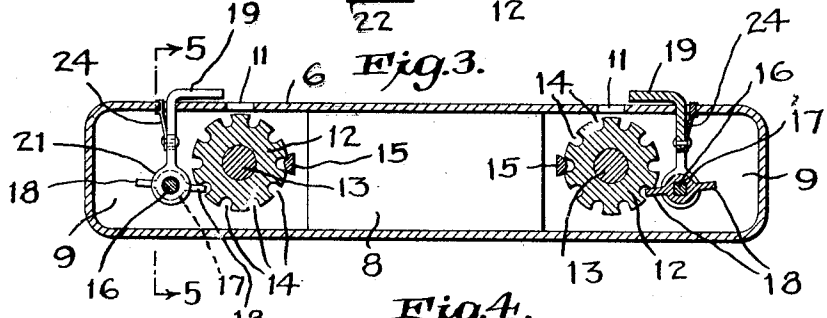


Fig. 3.

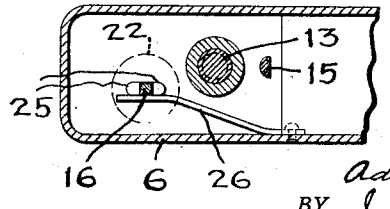


Fig. 4.

INVENTOR
Adolphe Bulova
BY J. F. Brandenburg
his ATTORNEY

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UNITED STATES PATENT OFFICE

ADOLPH BULOVA, OF NEW YORK, N. Y., ASSIGNOR TO BULOVA WATCH COMPANY, INC., OF NEW YORK, N. Y., A CORPORATION OF NEW YORK

WATCH AND GOLF SCORE

Application filed July 27, 1929. Serial No. 381,583.

The invention relates to a watch and golf score.

It has for its object to provide a simple device by means of which a golfer may keep his complete score for the game in connection with a time-piece.

The invention comprises a watch casing having end chambers provided with windows. Each of these chambers houses a series of nine number wheels and suitable means are provided for turning these number wheels, one at a time, by operating knobs outside of the case.

Further advantages of the invention will become apparent as the specification proceeds.

Referring to the drawings formnig a part hereof, and in which one embodiment of the invention is illustrated:

Fig. 1 is a plan view of the improved watch and golf score;

Fig. 2 is a fragmentary plan view on a larger scale with parts broken away and parts in section;

Fig. 3 is a cross-sectional view taken on the line 3—3 of Fig. 1;

Fig. 4 is a fragmentary detail sectional view on the line 4—4 of Fig. 2; and

Fig. 5 is a fragmentary detail sectional view on the line 5—5 of Fig. 3.

In the said drawings, the reference numeral 6 designates the case. The case is preferably oblong in form and has a time-piece 7 suitably secured in a housing 8 in the central portion of the case, thus providing two end chambers 9. The usual stem 10 for winding and setting the time-piece extends beyond the case 6.

A series of nine number wheels is mounted in each end chamber beneath windows 11 in the case, and means are provided for turning said wheels one at a time. This means might be widely varied. As each of the series of number wheels and its operating parts are identical, a description of one will suffice for both.

The number wheels 12 are freely mounted on a stud or shaft 13, which is fixed in the case 6. Each of the number wheels bears numerals from 0 to 9, and grooves 14 are provided between the numerals.

Friction means are provided for preventing the number wheels from turning. This friction means might be of any suitable character, and as illustrated comprises a spring member 15 having its ends secured in the case 6. This spring member lightly engages the grooves 14 and prevents the number wheels from rotating except when it is desired to turn one of them, by mechanism hereinafter described, for the purpose of scoring.

Means are provided for separately turning any one of the number wheels, and this means may be widely varied.

A squared pin 16, parallel and adjacent to the stud 13, is mounted in the case 6. An operating member 17 having a squared hole is slidably mounted on the pin 16. The operating member has two pins or fingers 18 projecting from it, and these pins engage the grooves 14 of one of the number wheels. The arrangement is such that when the squared pin 16 is given a half revolution the number wheel will be advanced one notch or moved from one number to the consecutive number.

Means are provided for moving the operating member 17 so as to cause it to engage any desired number wheel and for clearly indicating which wheel is being engaged.

An indicator 19 is slidably mounted on the pin 16 and passes through a slot 20 in the case. Numerals from 1 to 9 on the outside of the case are positioned alongside of the nine wheels of each series and designate which hole of the golf course the respective scores were made on. The indicator 19 points toward these numbers on the outside of the case.

The lower end of the indicator is bifurcated and the operating member 17 is positioned between the legs 21. It is thought that from the foregoing it will be apparent that, when the square pin 16 is rotated, the number wheel toward which the indicator is pointing will be turned.

Operating knobs 22 are secured on both ends of the pin 16 outside of the case 6, thus

enabling the number wheels to be actuated from either side of the case.

Means are provided for holding the indicator adjacent any one of the number wheels. For this purpose one edge of the slot 20 may be notched, as shown at 23. A light spring detent 24 is secured to the indicator. When the indicator is brought up to the number wheel which it is desired to turn, this detent will engage its respective notch and properly position the indicator so that there will be no possibility of the operating member 17 turning two number wheels. It will also prevent the indicator from freely sliding in its slot, and insure its being in position for the following play after a play has been completed. The notches are shallow enough and the spring detent light enough so as not to interfere with sliding the indicator manually when desired. Other means might readily be employed for accomplishing the foregoing result.

Simple means are provided for holding the squared shaft 16 in a proper position so that the fingers 18 of the operating member will maintain their correct relation to the grooves 14 of the number wheels.

Ears 25 are formed on the squared pin 16 near one of its ends. A flat spring 26 secured to the case engages these ears, as shown in Fig. 4. Thus, when the pin 16 is turned 180°, or half a revolution, to advance one of the wheels 12 one number, the opposite side of the ears 25 will engage the spring. In addition to maintaining the operating member in proper position, this acts as a click so that the user can easily tell by the feel as he is turning the knob 22 when he has advanced the number wheel one number.

In the operation of the device the player would start the game with all the number wheels in the zero position. After playing the first hole going out on the golf course, he would bring the indicator to number 1 on either side and advance that number wheel by one of the knobs 22 the number of strokes he had taken for that hole. For the second hole he would bring the indicator to number 2 and proceed in a similar manner until he had completed the game.

Many changes may be made in details of construction and arrangements of parts without departing from the spirit of the invention or the scope of the appended claims.

I claim:

1. A golf score device comprising a case, two series of number elements therein containing nine elements in each series, an indicator movable along each series of said elements, and means for operating the elements in each series one at a time in accordance with the position of the indicator.

2. A golf score device comprising a flat oblong case provided with parallel windows near its opposite ends, two series of number wheels with nine wheels in each contained in the case beneath said windows, and means operated by a single knob for turning one at a time the wheels in each series.

3. An article of the character described comprising a flat oblong case provided with parallel windows near its opposite ends, two series of number wheels with nine wheels in each contained in the case beneath said windows, an indicator for each of said series of number wheels, said indicators being slidably mounted in the case adjacent the number wheels and having means associated therewith so as to enable the wheel toward which the indicator is pointing to be turned.

4. A golf score device comprising a case, two series of number wheels freely mounted in said case, friction means engaging each of said number wheels to prevent them from rotating, an indicator for each of said series of number wheels, said indicators being slidably mounted in the case adjacent the number wheels, an operating member carried by each of said indicators, and means for rotating said operating member so as to cause the wheel toward which the indicator is pointing to be turned.

5. A golf score device comprising a case, two series of number wheels freely mounted in said case, grooves in the faces of said number wheels, friction means engaging said grooves to prevent the wheels from rotating, an indicator for each of said series of number wheels, said indicators being slidably mounted in the case adjacent the number wheels, an operating member carried by each of said indicators and engaging said grooves in the number wheels, and means for rotating said operating members so as to cause the wheel toward which the indicator is pointing to be turned.

6. A golf score device comprising a case provided with parallel windows near its opposite ends, two series of number wheels mounted in said case beneath said windows, an indicator for each of said series of number wheels, said indicators being slidably mounted in the case adjacent the number wheels, means for holding said indicators adjacent any one of said number wheels, operating means positioned by each of said indicators to engage one of said number wheels, and operating knobs outside of said case for rotating said operating means so as to turn one of said number wheels.

7. A golf score device comprising a case provided with parallel windows near its opposite ends, a pair of studs fixed in said case beneath said windows, two series of number wheels freely mounted on said studs, friction means engaging each of said number wheels to prevent them from turning, squared pins mounted in said case parallel to each of said series of number wheels, an indicator slidably mounted on each of said

squared pins, an operating member slidably mounted on each of said squared pins, said operating members being movable wth said indicators and engaging one of said number wheels, and operating knobs outside of said case rotating said squared pins so as to cause the wheel toward which the indicator is pointing to be turned.

ADOLPH BULOVA.