Sept. 5, 1950 O. H. WELCH 2,521,104

SCORE AND/OR STATISTICAL KEEPER

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Fig. 1.

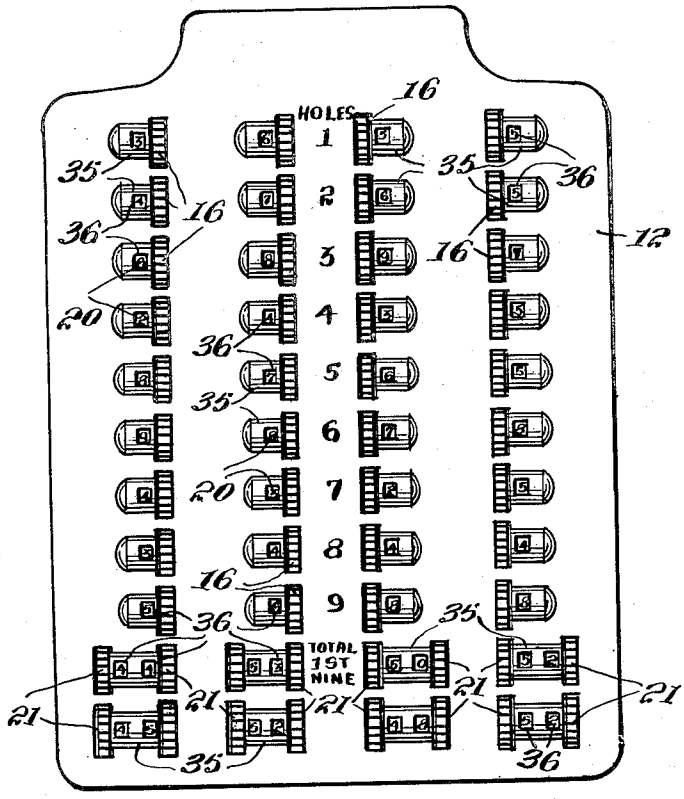


Fig. 2.

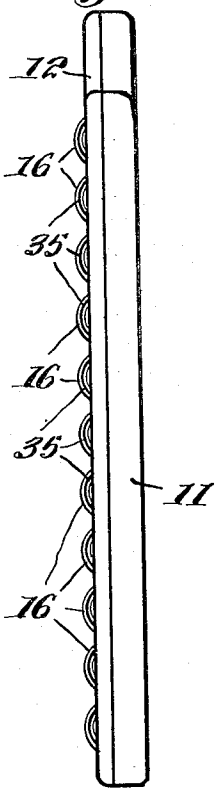


Fig. 10.

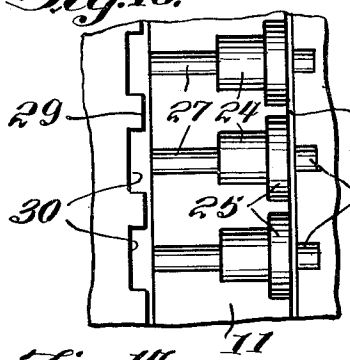


Fig. 11.

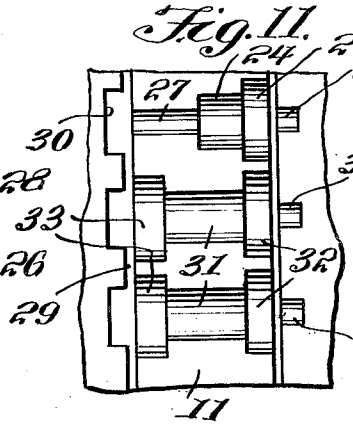


Fig. 12.

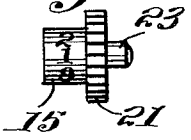


Fig. 13.

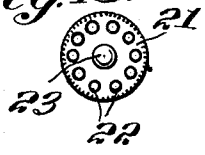
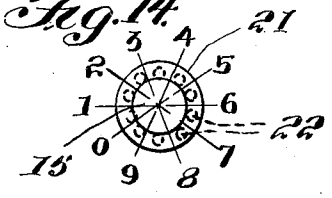


Fig. 14.

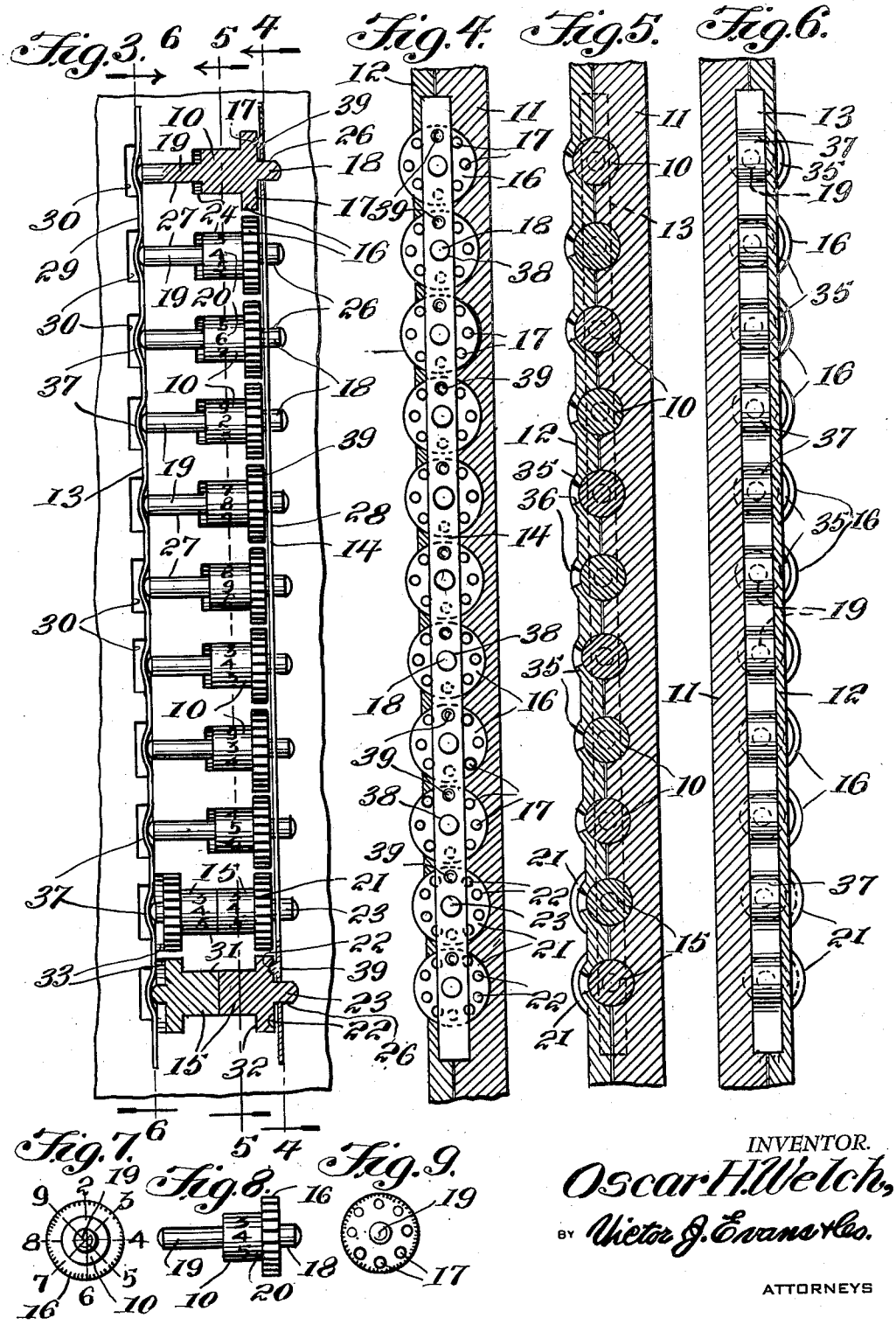


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Sept. 5, 1950 O. H. WELCH 2,521,104

SCORE AND/OR STATISTICAL KEEPER

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UNITED STATES PATENT OFFICE

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SCORE AND/OR STATISTICAL KEEPER

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Application May 12, 1948, Serial No. 26,632

1 Claim. (Cl. 235—110)

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This invention relates to tabulating and scoring devices particularly adapted for games and athletic use, and in particular the invention includes a comparatively small score board adapted to be held in the hand with a plurality of rotors having knurled discs and shafts integral therewith rotatably mounted therein and positioned so that indicia on the rotors shows through windows in the board.

The purpose of this invention is to provide a scoring device particularly adapted for playing golf in which individually actuated counters are provided for the different holes and additional counters are provided for the totals.

Various scoring devices have been provided for use in games of different types and whereas these include individual tabulating elements, it has been found desirable to arrange the elements of a score card so that an individual counter is provided for each hole and a series of counters are provided for each of a plurality of players.

The object of this invention is, therefore, to provide means for mounting a plurality of counters in rows in a score card wherein the counters are adapted to be independently actuated from the face of the card.

Another object of the invention is to provide means for mounting rotors with indicia thereon in a card for use in scoring wherein the rotors are locking in indicating positions and may be turned in either direction.

Another object of the invention is to provide means for mounting rotors in a score card wherein the rotors are resiliently held longitudinally to prevent accidental turning thereof.

A further object of the invention is to provide an improved golf scoring card having a plurality of rows of individually actuated counters which is of a simple and economical construction.

With these and other objects and advantages in view the invention consists of the new and novel combination, construction, and arrangement of parts as hereinafter more fully described, set forth in the claim appended hereto, and disclosed in the accompanying drawings, forming part hereof, wherein:

Figure 1 is a view showing a front elevation of the score card.

Figure 2 is a view showing a side elevation of the card.

Figure 3 is a plan view showing a single row of rotors with the cover omitted, with part of the base broken away, and with some of the rotors shown in elevation and some in section.

Figure 4 is a longitudinal section through the score card taken on line 4—4 of Figure 3, with the ends broken away, and illustrating the positioning and holding elements.

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Figure 5 is a similar section through the rotors, taken on line 5—5 of Figure 3.

Figure 6 is a similar section looking in the opposite direction, taken on line 6—6 of Figure 3, showing the spring strip for holding the rotors.

Figure 7 is a view showing an end elevation of one of the rotors illustrating the respective positions of the numerals thereon.

Figure 8 is a view showing a front elevation of one of the rotors.

Figure 9 is also an end elevation of one of the rotors looking toward the end opposite to that shown in Figure 7, and showing the indentations in the end thereof.

Figure 10 is a plan view showing a portion of the base with the other parts omitted illustrating the rotor receiving recesses and bearings therein.

Figure 11 is a similar view showing the recesses for the rotors on which the totals are indicated.

Figure 12 is a view showing a side elevation of one of the rotors used for indicating the total score.

Figure 13 is a view showing an end elevation of the rotor shown in Figure 12, showing the indentations in the end thereof.

Figure 14 is a view looking toward the opposite end of the rotor shown in Figure 12 illustrating the respective positions of the numerals thereon.

It will be understood that although the device is illustrated in the drawings as adapted to be used for a golf score and/or statistical keeper it may also be used for many other forms of entertainment, games, events and the like.

Referring now to the drawings wherein like reference characters denote corresponding parts the score and/or statistical keeper of this invention includes rotors 10 rotatably mounted in score boards having a base 11 and a cover 12, spring strips 13, locking strips 14, and total indicating rotors 15.

The rotors or rollers 10 are formed as illustrated in Figure 8 with knurled discs or flanges 16 having spaced indentations 17 in the ends thereof, and short shafts or pins 18 extending from the discs, with long shafts or pins 19 extending from the opposite ends and aligned with the shafts 18. The peripheral surfaces of cylindrical sections of the rotors are provided with numerals 20 which are positioned between the indentations, as illustrated.

The rotors 15 are similar to the rollers 10,

except that the long shafts are omitted, and when the score card is used for golf these rotors carry numerals from zero to nine, whereas the rotors 10 carry numerals from two to nine inclusive. The rotors 15 have knurled discs 21 with indentations 22 in the end thereof, and short shafts 23 extend from the ends thereof.

The base 11 is formed as illustrated in Figures 10 and 11, with recesses 24 for the rotors 10, larger recesses 25 for the discs 16, bearings 26 for the short shafts 18, and bearings 27, for the shafts 19. The base is also provided with an elongated slot 28 for each of the strips 14, and a slot 29 with pockets 30 in one side thereof, for the spring strips 13. At the lower end of the card the recesses for the rotors 15 are formed as shown in Figure 11, with semi-circular sections 31 for the rotors, 32 and 33 for the discs, and 34 for the shafts.

The cover 12 is provided with corresponding recesses and bearings and arcuate sections 35 with windows 36 therein are provided over the rotors as shown in Figure 5. The cover is otherwise formed to correspond with the base and may be cemented, or otherwise secured thereto.

The spring strips 13 are formed as illustrated in Figures 3 and 6, being provided with arcuate sections 37 that register with the axes of the rotors, and these strips are freely mounted in the slots 29.

The locking strips 14 are provided with openings 38 for the short shafts at the ends of the rotors and the surfaces thereof engaging the discs 16 are provided with projections forming detents 39 that register with the indentations in the ends of the discs of the rotors. As the rotors are turned by the thumb of the operator the spring strip permits the rotor to slide longitudinally away from the strips 14 so that the end of the disc may ride over the detent, and as soon as the next indentation arrives at the detent the rotor will snap back to one of the positions shown in Figure 3 with the detent in the indentation.

The rotors 15 for the totals are installed as illustrated in the last two positions shown in Figure 3 with the outer rotors frictionally held by the spring strip, and after nine holes have been played the total score therefor is tabulated and indicated on the first of the total indicating rotors. The lower rotors may be used to show the total score for eighteen holes or the total score for the day.

By this means the scores for four players may be indicated on a card and the rotors may be set as each hole is played.

It will be understood that modifications may be made in the design and arrangement of the parts without departing from the spirit of the invention.

What is claimed is:

In a point indicating board, the combination which comprises a board having a base and a cover with cylindrical cavities therein, the axes of which are centered in a plane extended through the meeting edges of the base and cover, said cover having windows therein in registering relation with the cavities and also having slots therein positioned at the ends of the windows, rollers having cylindrical sections with numerals on the surfaces mounted in the said cavities with the numerals positioned to show through the windows, said cylindrical sections having knurled flanges on the ends and said knurled flanges positioned to extend through the said slots, said rollers having pins extended from the ends of the cylindrical sections and knurled flanges through which the rollers are journaled in the board, a flat spring in the board positioned to resiliently engage the ends of the pins for frictionally retarding rotation of the said rollers, said knurled flanges having radially disposed indentations in the outer faces thereof, and flat springs having detents on the surfaces in the board and positioned whereby the detents snap into the indentations of the flanges for stopping the rollers with the numerals on the cylindrical sections thereof showing through the windows of the board cover.

OSCAR H. WELCH.

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