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M. COOK

2,093,308

WRIST SCORING DEVICE

Filed May 22, 1935

Fig. 1.

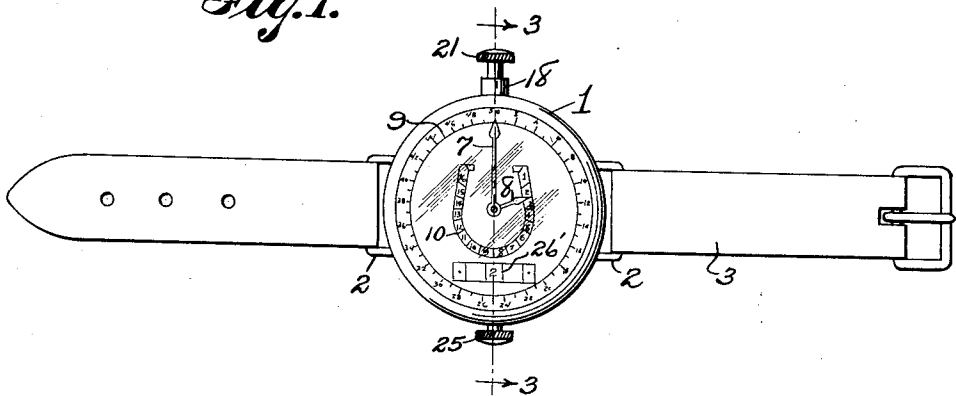


Fig. 2.

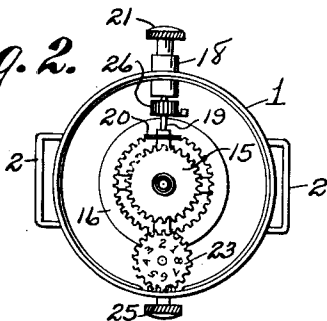


Fig. 3.

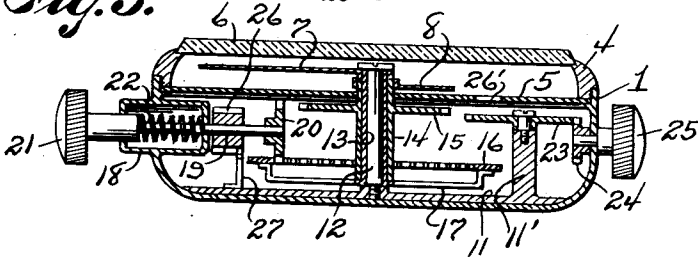


Fig. 4.

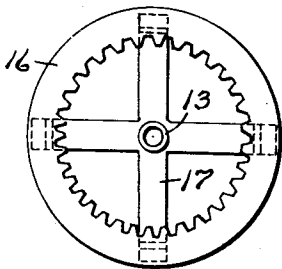
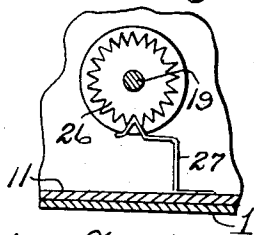


Fig. 5.



Melvin Cook

INVENTOR

BY Victor J. Evans & Co.

ATTORNEY

UNITED STATES PATENT OFFICE

2,093,308

WRIST SCORING DEVICE

Melvin Cook, Shelton, Conn.

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3 Claims. (Cl. 235—120)

This invention relates to a scoring device especially adapted for keeping scores of games of horseshoes and quoits and has for the primary object the provision of a device of this character which may be worn like a wrist watch so that it will be convenient to actuate and refer to and will not interfere with the movements of the player and has means whereby scoring points of different valuations can be registered.

With these and other objects in view, this invention consists in certain novel features of construction, combination and arrangement of parts to be hereinafter more fully described and claimed.

For a complete understanding of my invention, reference is to be had to the following description and accompanying drawing, in which

Figure 1 is a plan view illustrating a scoring device constructed in accordance with my invention.

Figure 2 is a sectional view showing the gearing mechanism between the registering hands and the operating mediums of my invention.

Figure 3 is a sectional view taken on the line 3—3 of Figure 1.

Figure 4 is a plan view illustrating one of the gears.

Figure 5 is a detail sectional view showing a spur gear and a spring dog for the operating shaft of the device.

Referring in detail to the drawing, the numeral 1 indicates a casing shaped and constructed similar to a watch casing having formed thereon loop elements 2 to which a wrist strap 3 is secured, whereby the casing 1 may be conveniently applied and worn on the wrist of a player or other person witnessing the game of horseshoes or quoits. The casing 1 includes a removable rim for securing to said casing a dial 5 and also having mounted thereto a crystal or transparent panel 6 for protecting the dial as well as hands 7 and 8 which are movable over the dial. Graduations 9 are applied to the dial adjacent the periphery in annular formation for cooperation with the hand 7 in registering scoring points of a game of a certain valuation. Graduations 10 in the form of a horseshoe are applied to the dial to cooperate with the hand 8 for registering scoring points of a game of a different valuation.

A plate 11 is mounted in the casing 1 and carries a shaft 12 projecting through an opening in the dial 5 and journaled upon the shaft are inner and outer sleeves 13 and 14. The inner sleeve has the hand 7 secured thereto while the outer sleeve 14 has the hand 8 secured thereto. A gear

15 is secured to the outer sleeve 14 and a gear 16 is secured to the inner sleeve by a frame 17. The gear 16 is of the internal tooth type. A mounting 18 is carried by the casing 1 and has slidably and rotatably mounted thereto a shaft 19 carrying at its inner end a pinion 20 and at its outer end a finger piece 21. A coil spring 22 in the mounting 18 acts on the shaft 19 to position the pinion 20 in mesh with the teeth of the gear 16 so that by turning the finger piece 21 the hand 7 may be moved over the scale 9. Pressure applied on the finger piece 21 disengages the pinion 20 and the gear 16 and engages said gear 20 with the gear 15, whereby the hand 8 may be moved over the scale 10 by turning the finger piece 21.

A ratchet wheel 26 is secured to the shaft 19 and is engaged by a spring dog 27 to hold said shaft against accidental rotation and will permit manual turning of the shaft 19 with an intermittent rotation or with a clicking action so that a person operating the device by feel and sound can readily determine the movements of the hands 7 or 8 over their respective dials.

The plate 11 carries a post 11' that rotatably supports thereon a gear 23 that meshes with a pinion 24 secured to a finger piece 25. The gear 23 rotates in rear of a window 26' formed in the dial 5. Applied to a face of the gear 23 is a series of numbers, any one of which may be brought in view through the window 26' by the operation of the finger piece 25 to indicate the number of games played.

Having described the invention, I claim:

1. A registering device for indicating scores and the like comprising a casing having a dial mounted therein and visible through one face of the casing and having an inner and a peripheral scale to indicate different valuations and hands movable over said scales, a plate fixed in the casing having a central shaft extending through the dial, inner and outer sleeves on the shaft on which the hands are fixed, a gear on the outer sleeve arranged beneath the dial, a larger internal ring gear having a frame which is fixed on the inner sleeve at the inner end thereof and a longitudinally movable and rotatable shaft journaled in the casing and having an outer finger piece, a ratchet wheel fixed on the shaft, a spring dog carried by the plate engaging said ratchet wheel, a pinion on the inner end of the shaft engageable with the gear on the outer sleeve or with the ring gear of the inner sleeve, and a spring influencing the shaft to bring such pinion into normal mesh with the internal ring gear.

2. A registering device comprising a casing having a dial therein visible through one face thereof, said dial having two indicating scales associated therewith, said scales being arranged on the dial in substantially concentric relation with respect to each other, a separate scale indicator for each of said two scales on the dial, said scale indicators having concentric mounting means one within the other and extending through the dial to the rear thereof, means carried by the casing upon which said mounting means are pivoted, and means for operating said scale indicators including a manually rotatable stem member extending outwardly of the casing for operation, said stem being movable to an outward position or an inner position and having means for normally holding it in its extended position relative to the casing but yieldable to permit it to be depressed inwardly whereby either one or the other of said scale indicators may be selectively operated, and cooperating means between said rotatable stem and the indicator mounting means

whereby either scale indicator may be rotated with respect to its scale independently of the other.

3. A registering device comprising a casing having a dial therein visible through one face thereof, said dial having indicating scales associated therewith, a separate scale indicator for each of said scales on the dial, said scale indicators each having a rotatable mounting means extending through the dial to the rear thereof, a pivotal support therefor carried by the casing, and means for separately rotating said scale indicators including a manually rotatable stem extending outward of the casing and axially movable so as to cooperate with the desired scale indicator mounting, and cooperating means between the inner end of said rotatable stem and the indicator mountings whereby the scale indicator selected may be rotated with respect to its scale independently of the other.

MELVIN COOK.