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C. H. PERIER

2,704,048

SCORING OR INDICATOR DEVICE

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FIG. 1.

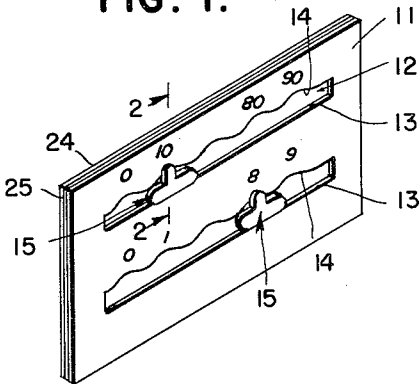


FIG. 2.

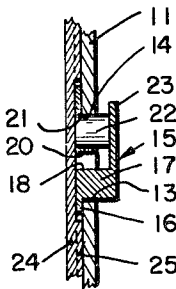


FIG. 3.

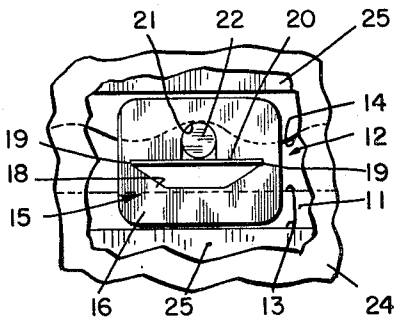


FIG. 4.

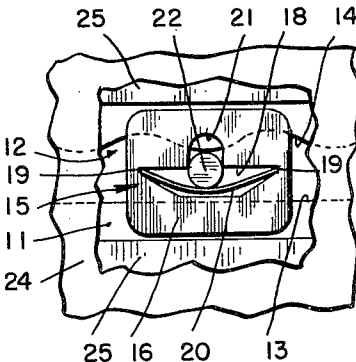
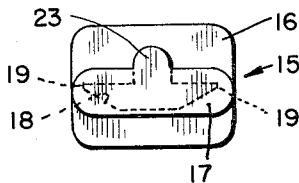


FIG. 5.



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2,704,048

SCORING OR INDICATOR DEVICE

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6 Claims. (Cl. 116—135)

This invention relates to a scoring or indicator device. One object of the invention is to provide a simple scoring or indicating device. Another object is to provide an indicator slider for use in a slot in a card or the like. Still another object is to provide a detent slide indicator which may be easily and smoothly moved from one fixed position to another in a slotted card or the like.

These and other objects are attained by my invention which will be understood from the following description, reference being made to the accompanying drawing in which

Fig. 1 is a perspective view showing one form of my scoring and indicator device following my invention;

Fig. 2 is a cross-sectional view taken on the line 2—2 of Fig. 1;

Fig. 3 is an enlarged fragmentary rear elevational view of the detent slider positioned at an indentation in the slot;

Fig. 4 is a similar fragmentary rear elevational view showing the detent slider positioned midway between indentations in the slot; and

Fig. 5 is a front elevational view of the detent slider.

Referring to the drawings, a preferred form of my invention is shown in Fig. 1 which consists of a cardboard base plate 11 which is provided with one or more grooves or slots 12, each having one straight edge 13 and an opposite wavy or undulating edge 14. A detent slider 15 is adapted to slide in the grooves or slots 12, the slider consisting of a back-plate 16 which is wider than the slots 12 and holds the body 17, which is attached to or integral therewith, protruding forwardly through the groove so that it may be pushed along the groove by a finger. The slider body 17 is of the same width as the minimum width of the slot 12. The slider is provided with a crescent shaped cavity 18 extending through the back-plate and into the body 17, the cavity ends 19 being narrowed to hold the ends of a flat leaf spring 20, and the widened central portion being arranged to permit the bending of the leaf spring. Adjoining the crescent shaped cavity 18 at its center there is a lateral cavity 21 also extending through the back-plate 16, this lateral cavity being adapted to seat a roller 22, which rests on the leaf spring 20. The roller 22 is held by the spring to protrude through a centralized opening in slider body 17 so that it is held above the edge of the body 17 of the detent slider which is adjacent to the wavy or undulating edge 14 of the slot 12 thereby permitting the roller to make rolling contact with the wavy edge of the groove 12. A guide 23 is provided on the front edge of the body 17 of the slider which with the back plate 16 serves to retain the slider in the slot as the wavy edge 14 thereof contacts the roller 22. As the slider passes the humps on the wavy edge 14, the roller 22 presses the spring 20 into the widened central portion of the cavity 18.

The guide tab also serves as a pointer to the indicia marked at the indentations along the undulating slot.

The detent slider 15 is retained in the grooves or slots 12 by the back-plate 16 of the slider and the guide tab 23, but may be more securely held in the groove by a closure plate 24 which is attached at the back side of the base plate 11, there being a spacer 25 between the closure plate 24 and the base plate 11 to permit free movement of the slider in the grooves.

In the preferred form shown, the indentations have been given numerical indicia, and it will be apparent that other markings may be used depending upon the use to which this device is to be put, for example, it may be used

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as a scoring card or as a reminder for household purchases, and for a stock indicator, or the like.

The advantages of my device are generally its low cost and simplicity of fabrication. The slider does not wear out the grooves or slots because of the roller detent which moves against the wavy edge of the slot, the other edge being straight and not subjected to excessive wear. The slider may be positioned at any desired indentation by merely pushing it longitudinally in the slot until the desired position is reached, the spring pressed roller holding the slider in the indentation. The roller permits the smooth sliding of the slider in the wavy edged slot.

I claim:

1. A scoring or indicator device comprising a base plate having a slot with one undulating edge and one straight edge, a detent slider adapted to be moved along said slot, said detent slider comprising a body projecting into said slot, and a spring pressed roller mounted in a cavity in said body, said roller being exposed through an opening in said body and pressing against said undulating edge and said slider being held in place between the edges of said slot.

2. A scoring or indicator device comprising a base plate having a slot with one undulating edge and one straight edge, and a detent slider adapted to be moved along said slot, said detent slider comprising a body projecting into said slot, a roller mounted in a cavity in said body, said cavity having an opening adjacent said undulating edge, whereby the cylindrical surface of said roller contacts said undulating edge; a leaf spring mounted in a cavity of said body adjacent said roller cavity, said spring pressing upon the cylindrical surface of said roller opposite said undulating edge, and means on opposite faces of said body for retaining said slider in the slot of said base plate.

3. A scoring or indicator device comprising a base plate having a slot with one undulating edge and one straight edge, and having indicia adjacent the indentations of said undulating edge, and a detent slider adapted to be moved along said slot, said detent slider comprising a body having one side adapted to slide on the straight edge of said slot in said base plate, and having an opposite side adapted to slide along the humps of said undulating edge of said base plate, a roller mounted in a cavity in said body, said cavity having an opening adjacent said undulating edge, whereby the cylindrical surface of said roller contacts said undulating edge, a leaf spring mounted in a cavity of said body adjacent said roller cavity, said spring pressing upon the cylindrical surface of said roller opposite said undulating edge, and means on opposite faces of said body for retaining said slider in the slot of said base plate.

4. A scoring or indicator device comprising a base plate having a slot with one undulating edge and one straight edge, and having indicia adjacent the indentations of said undulating edge, and a detent slider adapted to be moved along said slot, said detent slider comprising a body having one side adapted to slide on the straight edge of said slot in said base plate, and having an opposite edge adapted to slide along the humps of said undulating edge of said base plate, a back plate on said body wider than said slot, a roller mounted in a cavity in said body, said cavity having an opening adjacent said undulating edge, whereby the cylindrical surface of said roller contacts said undulating edge, a leaf spring mounted in a cavity of said body adjacent said roller cavity, said roller resting on its cylindrical surface upon said spring, and a guide tab on the front of said body extending over said undulating edge.

5. A detent slider adapted for use in a slot and slider indicator device comprising a body adapted to slide in a slot in said indicator, a back plate on said body wider than said slot, a roller mounted in a cavity in said body and projecting from one side of said body, a leaf spring mounted in a cavity of said body adjacent said roller cavity, said spring pressing upon the cylindrical surface of said roller, and combined pointer and aligning means on said body disposed opposite said back plate and parallel thereto, adapted to retain said slider in the slot of said indicator device.

6. A detent slider adapted for use in a slot and slider indicator device, said slider being adapted to be moved along a slot having one undulating edge, comprising a

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body having a side adapted to slide along the humps of
said undulating edge of said indicator, a back plate on
said body wider than said slot, a roller mounted in a
cavity in said body, said cavity having an opening adapted
to permit the surface of said roller to make rolling con- 5
tact with said undulating edge, a leaf spring mounted in
another cavity of said body adjacent said roller cavity,
said roller resting on its cylindrical surface upon said
spring, and a guide tab on the front of and integral with
said body, said tab extending over said undulating edge 10
and adapted to position said body relative to said slot.

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References Cited in the file of this patent

UNITED STATES PATENTS

1,395,094	Collins -----	Oct. 25, 1921
1,714,929	Smith -----	May 28, 1929
2,558,276	Simpson -----	June 26, 1951

FOREIGN PATENTS

26,178	Great Britain -----	of 1912
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