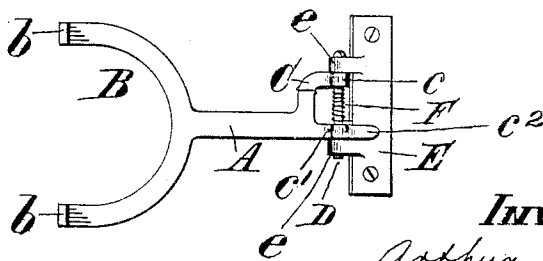
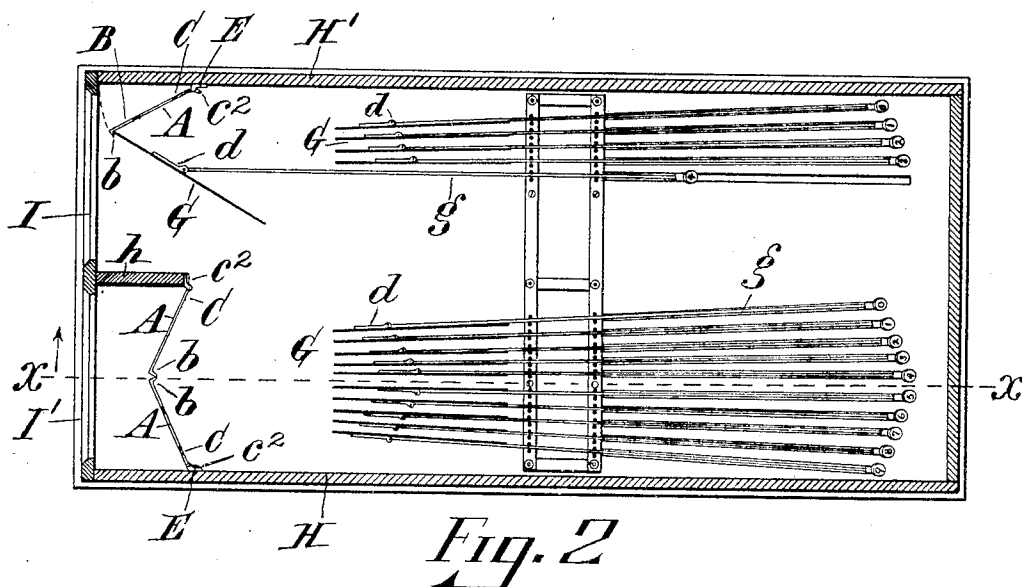
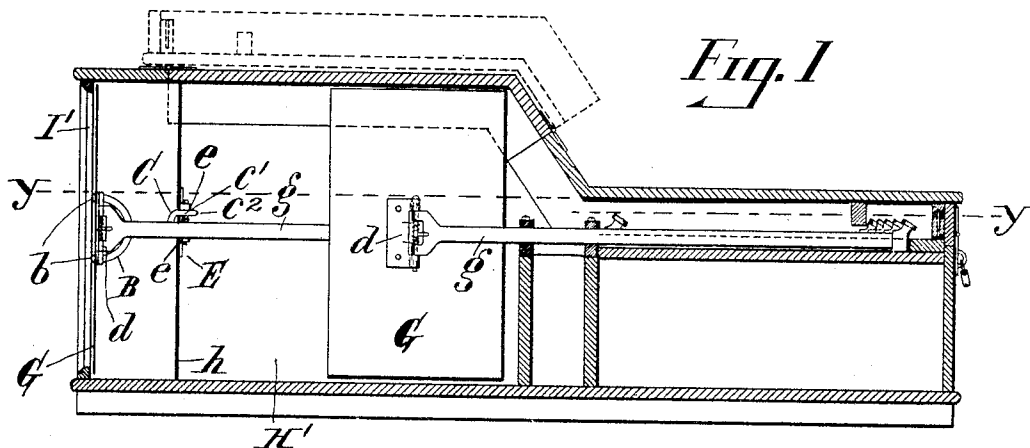


(No Model.)

A. FOLGER.
GAME COUNTER.

No. 581,277.

Patented Apr. 27, 1897.



WITNESSES:

L. M. Jones
Sherwood R. Paylor.

Fig. 3

INVENTOR:

Arthur Folger
by John C. Jones,
his attorney.

UNITED STATES PATENT OFFICE.

ARTHUR FOLGER, OF CINCINNATI, OHIO, ASSIGNOR TO HUGO G. HESS, OF
SAME PLACE.

GAME-COUNTER.

SPECIFICATION forming part of Letters Patent No. 581,277, dated April 27, 1897.

Application filed February 23, 1897. Serial No. 624,610. (No model.)

To all whom it may concern:

Be it known that I, ARTHUR FOLGER, a citizen of the United States, residing at Cincinnati, in the county of Hamilton and State of Ohio, have invented a certain new and useful Improvement in Time and Result Indicators for Race-Tracks, Games, and other Purposes, of which the following is a specification.

My invention relates more especially to an improvement in the device jointly patented by myself and Will. H. Winder November 13, 1894, No. 529,118; and it consists in the novel features of construction of the shunt or switch device for automatically causing the display-shields to change from a longitudinal to a transverse position in the front opening for view before the spectators when said display-shields are projected forward by their respective keyed rods, all of which will be fully described hereinafter and particularly pointed out in the claim.

In the accompanying drawings, Figure 1 is a longitudinal sectional elevation taken on dotted line *x x* of Fig. 2, but showing a display-shield (marked "4" on its key or handle) of the rear set projected fully forward into display position in the front opening and embodying my present invention therein; Fig. 2, a sectional plan on dotted line *y y* of Fig. 1, but showing all the display-shields retreated from view, except that one shield of the far set is in the act of being projected forward, having just engaged the shunt embodying my invention herein; and Fig. 3, a detail elevation of my invention apart from the machine.

My device herein is composed of a horizontal bar A, having constructed at one end a wide fork B, having lugs *b b*, and at the other end a narrow fork C, the latter in turn comprising a pair of arms *c* and *c'*, which are provided with eyes or orifices and engage over a vertical pin D for swinging pivotal connection therewith.

E is a vertical plate having orificed lugs *e e* constructed thereon, between which latter the forked arms *c c'* are hinged on said pin D, a spiral spring F being wound on said pin and bearing at its opposite ends against the fork C and the plate E, respectively, so as to au-

tomatically return the device to its normal position after a display operation.

*c*² is a projection or extension constructed on the said arm *c'* to provide a stop and prevent undue rear movement of the device in assuming its normal position.

The spring-controlled bar A and its forked arms B and C form my automatic shunt or switch device, which is substituted for the guide-wedges *f* and *f'* of said former patent in causing the display-shields to positively turn from a longitudinal to a transverse position in their advance movement for full square presentation to view before the spectators, the automatic spring-hinges *d* (lettered *a* in the said former patent) causing the shields to return to their normal position on withdrawal from a front opening.

G represents each one of the vertical display-shields; *g*, the suitably-numbered operating key-rods thereof; H H', the two vertical side walls of the casing; *h*, a vertical partition in the front of the casing, and I I' the display-openings, which may be two or more to suit the use of the indicator.

The shunt device is attached either singly or doubly, or both, as seen in Fig. 2, to the rear of the display-openings, a single shunt being mounted with its plate E attached to the far side wall H' for switching the lesser set of display-shields back thereof and a double set of shunts being mounted with their plates E attached to the partition *h* and side wall H, respectively, for switching the greater set of display-shields located back thereof. These shunts are mounted about mid-height or intermediate the top and bottom of the display-shields, and their forked ends B being very wide prevent any wobbling or rocking out of line of the several display-shields in the reciprocal movements thereof within the box to and from display position, and thus also prevent any binding or catching contact of the upper and lower ends of said shields on the inner surfaces of the top and bottom of the box.

The lesser forks C at the inner ends of the several shunts also aid in preventing any wobbling or rocking of the shields, especially

at the hinging or pivotal points thereof. The several movements or motions of the display-shields are therefore very easy and firm, and they cannot be annoyingly and accidentally caught in reciprocating them to and from presenting view.

In the operation of my device the key or handle of the key-rod connected with the shield to be displayed is grasped by the operator and pushed forward till the outer vertical edge of the display-shield positively engages the lugs *b b* on the fork B, at which time (as the pushing of the rod still continues) the said shield swings forward in a quarter-circle from a longitudinal to a transverse position into and across the opening for view. When it is desired to withdraw the shield from view, the said rod is drawn backward, carrying with it the shield, which automatically assumes its longitudinal position against the rod (by means of its spring-hinge *d*) as soon as it leaves said lugs *b* on the fork B, the arm carrying the latter at once automatically assuming its normal transverse position on its

spring-hinge fork C F within the fore end of the casing, slightly to the rear of the front openings I and I'.

I claim—

In an indicator or display apparatus, the combination with a sliding display-shield, of a shunt or switch device composed of a horizontal bar A having, at one end a wide fork B, and, at its other end, a narrow fork C; lugs or lateral projections *b, b*, constructed on fork B in the longitudinal path of said shield; extension or stop *c*² on the fork C; and a vertical pin having a spiral spring thereon and mounted in lugs on a plate to which said fork C is hinged by said pin; the whole being constructed and mounted within a suitable box or casing having display-openings, and adapted to operate, substantially as herein set forth.

ARTHUR FOLGER.

Witnesses:

EDGAR D. PAYNE,
JOHN E. JONES.