

R. F. CORDERO.
INDICATOR.
APPLICATION FILED MAR. 7, 1911.

1,015,139.

Patented Jan. 16, 1912.

2 SHEETS—SHEET 1.

Fig. 1.

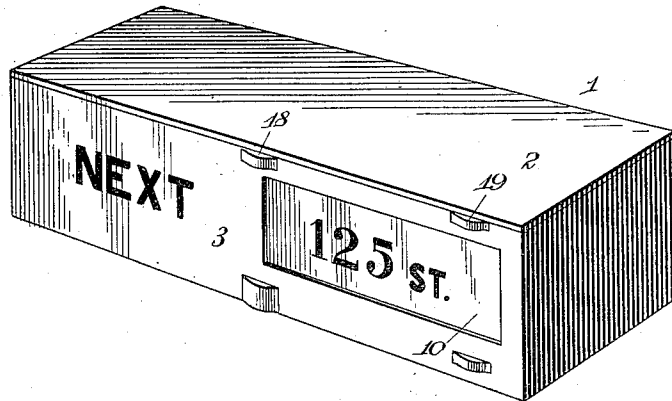


Fig. 2.

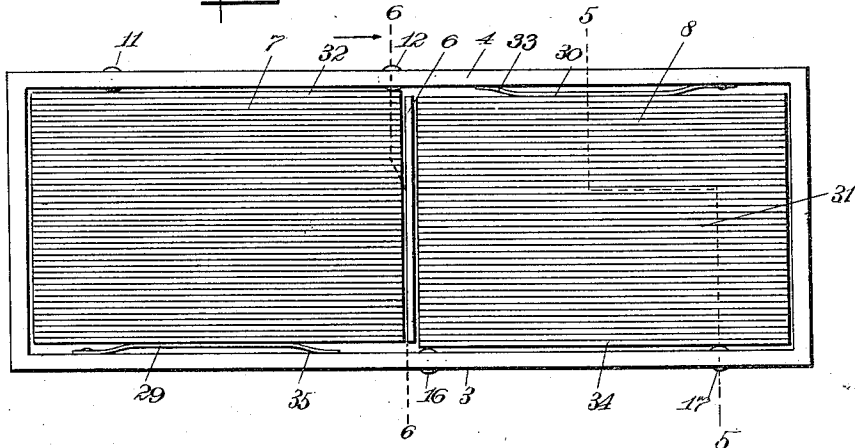
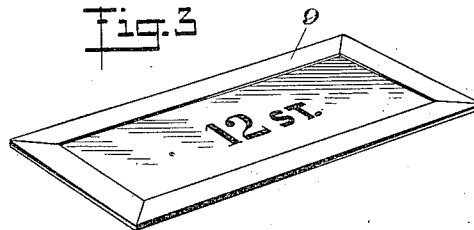


Fig. 3.



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2 SHEETS—SHEET 2.

Fig. 4.

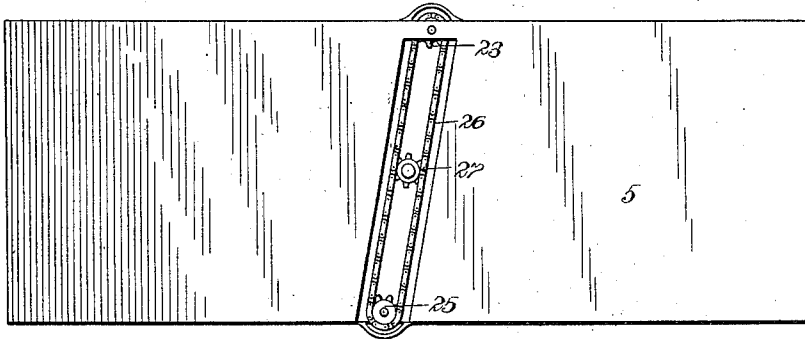


Fig. 5.

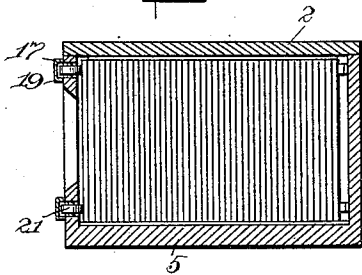


Fig. 6.

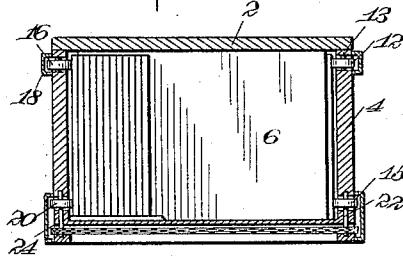
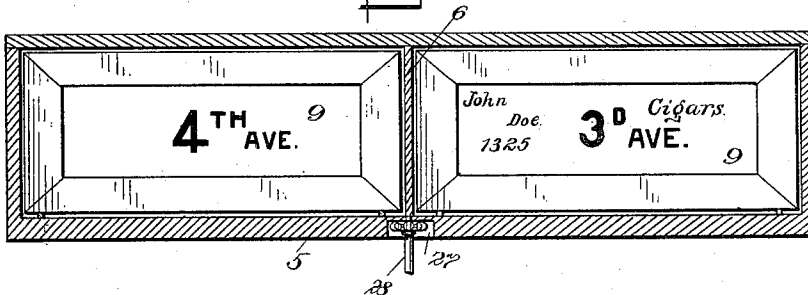


Fig. 7.



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UNITED STATES PATENT OFFICE.

RAMÓN FEBRES CORDERO, OF RUBIO, VENEZUELA.

INDICATOR.

1,015,139.

Specification of Letters Patent.

Patented Jan. 16, 1912.

Application filed March 7, 1911. Serial No. 612,895.

To all whom it may concern:

Be it known that I, RAMÓN FEBRES CORDERO, a citizen of the Republic of Venezuela, and a resident of Rubio, in the State of Tachira, Venezuela, have invented a new and Improved Indicator, of which the following is a full, clear, and exact description.

My device relates to a new and improved indicator and more particularly to an indicator for use upon cars, to be used as a device for automatically indicating the successive streets along the route which the car is approaching, and at the same time constituting an advertising device by means of which different advertisements are successively brought to view.

An object of my invention is to provide a device simple in construction, by means of which differently lettered or numbered plates may be successively presented to view.

A further object of my invention is to provide an indicator having separated plates, so constructed and arranged that one plate may be removed and another inserted in place thereof without in any way mutilating the device or interfering with its continuous operation.

With the above and other objects in view, as will more fully hereinafter appear, the present invention consists in certain novel details of construction and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and more particularly pointed out in the appended claim.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures, and in which—

Figure 1 is a perspective view showing a preferred embodiment of my device; Fig. 2 is a plan view looking down upon the device shown in Fig. 1 with the cover removed; Fig. 3 is a detailed perspective view of one of the plates; Fig. 4 is a bottom view of the device shown in Fig. 1, showing the endless chain connection between the actuating rollers; Fig. 5 is a transverse sectional view taken on the line 5—5 of Fig. 2; Fig. 6 is a transverse sectional view taken on the line 6—6 of Fig. 2; and Fig. 7 is a front elevation of the device shown in Fig. 1, with the front side of the device removed.

In the several figures, I have shown a substantially rectangle-shaped receptacle 1, hav-

ing a top 2, a front side 3 and a rear side 4, together with a bottom 5. Centrally disposed within the receptacle 1 is a partition 6 extending from adjacent the front side 3 to a point adjacent the rear side 4, thereby dividing the receptacle into a reservoir compartment 7 and a display compartment 8. Each of these compartments is adapted to contain any preferred form of display plates 9, which plates are disposed in planes parallel to the plane of the front side 3 and the plane of the rear side 4 and at right angles to the plane of the partition 6. Centrally disposed with reference to the display compartment 8, the front 3 is apertured at 10, to form a display opening through which the plates 9 are visible.

In the rear of the reservoir compartment are positioned horizontally-disposed rolling members 11 and 12, adjacent the top edge 13 of the rear side 4. Vertically disposed beneath these rollers 11 and 12 are similarly disposed rollers, one of which, 15, is positioned adjacent the bottom 5. Similarly disposed in front of the display compartment 8 are a pair of rollers 16 and 17, positioned adjacent the top 2 preferably within pockets 18 and 19. In line with the rollers 16 and 17 are rollers 20 and 21 disposed adjacent the bottom 5 of the indicator. The roller 15 is rigidly mounted upon a spindle 22 journaled in the rear side 4, the lower end of which spindle carries a sprocket wheel 23. Similarly, the roller 20 in front of the receptacle is rigidly mounted on a spindle 24, the lower end of which carries a sprocket wheel 25. The sprocket wheels 23 and 25 are connected by any preferred form of endless chain 26, which chain is actuated by a driving sprocket wheel 27 rigidly mounted upon a driving shaft 28, which driving shaft is connected with any preferred form of actuating device preferably a device which is adapted to give an intermittent motion to the shaft.

Centrally disposed in the inside of the front wall of the compartment 7 is a spring 29 having inclined end portions 35, which spring is rigidly fastened to the receptacle and extending into the compartment. Similarly disposed in the rear of the display compartment is a similarly constructed spring 30. Each of these springs presses upon the stack 31 of plates 9 in each of the compartments, to force the stack of plates in opposite directions in their respective compart-

ments, to bear upon the rollers hereinbefore described.

It will be seen that the actuation of the shaft 28 will cause the rollers 15 and 20 to rotate in the same direction, anti-clockwise, as shown in Fig. 2, which will cause the rear plate 32 in the compartment 7 to move toward the right, which plate will move up the incline 33 on the spring 30, thereby forcing the stack of plates in the compartment 8 forward against the rollers 16, 17, 20 and 21. At the same time the roller 20 is actuated, thereby moving the front plate 34 in the display compartment 8 to the left, as shown in Fig. 6, which plate will ride up on the incline 35, thereby forcing the stack of plates in the reservoir compartment to the rear. It will be noted that by this mechanism, plate after plate is brought into visual position, so that each plate can be seen through the opening 10 in the front of the receptacle. Further, it will be seen from the above description, that it is possible to take one or more of these plates out of the receptacle and to insert other plates in place thereof, without in any way mutilating the device or interfering with the working of the same. The openings between the edge of the partition 6 and the front and the rear sides, respectively, are of a size equal to the thickness of one of the plates, so that as the roller bears on the end plate to bring it into the opposite compartment, this action will cause but one plate to slide over into the other compartment.

Having thus described my invention, I claim as new and desire to secure by Letters Patent:

In an indicator, a receptacle having two compartments, one of said compartments having an opening in the side thereof, a stack of display plates disposed in each of said compartments, said plates disposed in planes parallel with the plane of said opening, one of said stacks facing said opening, a plurality of top and bottom rollers bearing on the face of said stacks in rear of one compartment and in the front of the other compartment, springs bearing on said stacks and forcing the same into engagement with said rollers, whereby the rotation of said rollers will move an end plate from the stack in one compartment to the stack in the other compartment, a spindle depending from a bottom roller in each compartment, a sprocket wheel carried by each of said spindles, a diagonally extending endless chain connecting said spindles beneath said receptacle, and means for actuating said chain, whereby the end plate of each stack will be moved simultaneously from one compartment to the other.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

RAMÓN FEBRES CORDERO.

Witnesses:

W. S. ORTON,
PHILIP D. ROLLHAUS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."