

W. R. HARVEY.
ADVERTISEMENT DISPLAYING MECHANISM FOR CASH REGISTERS OR TILLS.
APPLICATION FILED MAR. 30, 1912.

1,056,276.

Patented Mar. 18, 1913.

Fig. 1.

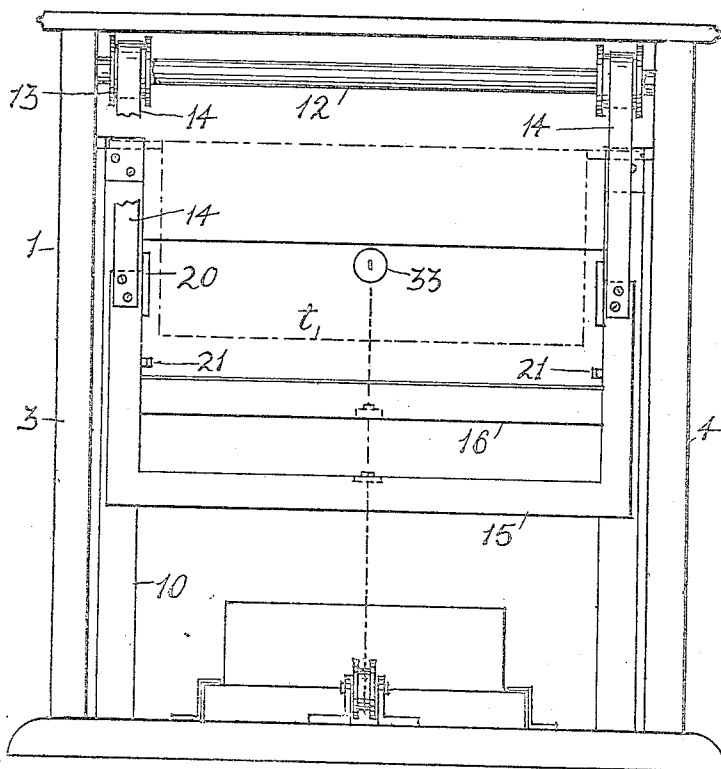


Fig. 2.

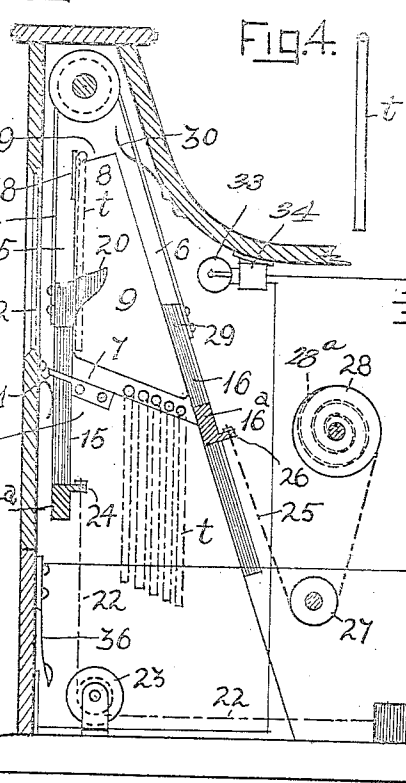


Fig. 4.

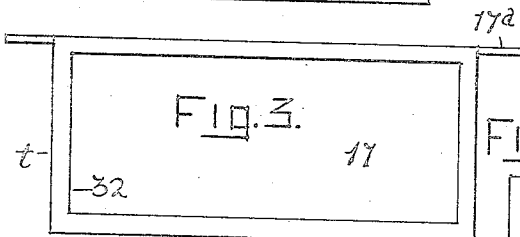


Fig. 3.

Fig. 8.

Fig. 5.

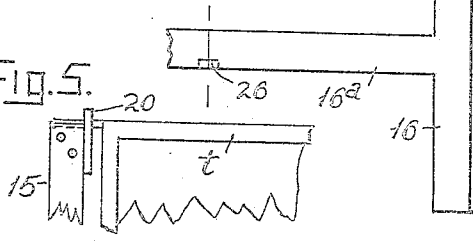
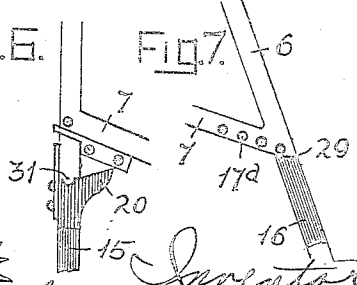


Fig. 6.

Fig. 7.



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UNITED STATES PATENT OFFICE.

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ADVERTISEMENT-DISPLAYING MECHANISM FOR CASH-REGISTERS OR TILLS.

1,056,276.

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Application filed March 30, 1912. Serial No. 687,483.

To all whom it may concern:

Be it known that I, WILLIAM ROWLAND HARVEY, a subject of the King of Great Britain, and residing at New Brighton, Cheshire county, England, have invented new and useful Improvements in Advertisement-Displaying Mechanism for Cash-Registers or Tills, of which the following is a specification.

10 This invention relates to mechanism for displaying advertisements in cash registers or tills.

According to my invention, advertisement carrying tablets which are adapted to be pendulously supported in the apparatus and arranged in a series at the base, are raised one at a time to a displaying aperture in the front of the apparatus, from one end of the series, and lowered in a similar manner to the other end of the series by means of reciprocating carriers or frames, the tablet about to be displayed being raised by means of one carrier and the one last displayed being lowered by means of the other carrier simultaneously each time the till is opened or closed. The carrier or frame for raising the tablet to be exposed deposits the latter upon a rest opposite to the displaying aperture and the carrier or frame for lowering the tablet slightly raises the latter from its rest during its upward movement and then lowers it to the level of the series in the base. Means are provided for illuminating the advertisement being displayed while the cash drawer or till is open.

In the drawing, Figure 1 represents the improved mechanism in front elevation. Fig. 2 represents the said mechanism in longitudinal sectional elevation. Fig. 3 represents an elevation of the advertisement tablet; Fig. 4 an end view of the same; Fig. 5 a front view of one upper end of the tablet lowering carrier; Fig. 6 a side view of a portion of one of the slideways for the front tablet carrier or frame showing the said frame in its lowest position; Fig. 7 a similar view of one of the slideways for the rear carrier showing the latter also in its lowest position, and Fig. 8 one half of the rear carrier in elevation.

In the front 1 of the case of the apparatus is provided a window 2 opposite to which the advertisements are displayed. In or on the sides 3 and 4 are formed the endless pathways for guiding the advertisement tablets, the pathways being preferably some-

what triangular in configuration the apex, however, being blunt. The sides of the pathway are represented by 5, 6, and 7 and the apex by 8.

The triangular pathway is practically a grooved one, and the sides 5 and 6 are continued below the base 7, the inner track portion of the pathway being defined by the raised center parts 9 and 10. Above the pathways is mounted a shaft 12 carrying rollers 13 near to the ends. Over these rollers are passed straps 14 which may be of thin metal, the two ends of the straps being fixed to the carriers for raising and lowering the tablets. The carriers are represented by 15 and 16, and consist preferably of frames having two vertical sides and cross bars 15^a and 16^a, respectively, the cross bar 15^a being at the bottom in the carrier 15, and the cross bar 16^a between the top and bottom ends in the carrier 16. The carriers lie and slide against the raised center parts 9 and 10.

The raised part 9 between the sides 5 and 6 of the pathway and the straps 14 form grooves in which engage the ends of the tablets 17. The latter are illustrated in Figs. 3 and 4, Fig. 3 being a front elevation and Fig. 4 an end view. The tablets are provided with fingers 17 which engage in the grooves of the pathways and by which the tablets are pendulously supported. The carriers are shown in their intermediate or half-way position in Figs. 1 and 2. At the apex of each pathway a notch or recess is formed by the stop 18, see also Fig. 5, and the incline 19. The carrier 15 has at each side a side extension 20, Figs. 1, 2 and 5, for the purpose hereinafter stated, also a projection such as 21, Figs. 1 and 2, is fixed to the member 10 in line with the base part 7 of the pathway. The carriers may be actuated in any suitable way. In the drawing a cash drawer or till *p* is indicated and connected to this is shown a chain or cord 22 which passes around a pulley 23 and is connected at its other end to the carrier 15 at 24. By this arrangement, when the till is drawn out the carrier 15 is lowered. The carrier 16 is also connected at 26 to a chain or cord 25 which passes around the pulley 27 and is connected to a roller 28. The latter has a torsion spring 28^a by which it is normally wound up, the spring being sufficiently strong to raise the carrier 15 to its highest position, and if required to pull in the drawer *p*.

One tablet only at a time is displayed before the window 2 and this is indicated in broken lines at *t* in Figs. 1 and 2. The remainder of the tablets are packed together at the base 7 of the pathway each being suspended by its fingers or extensions 17 in the groove 7. When the drawer *p* is pushed home, the carrier 16 falls until its end 29 is level with or just below the groove 7. The latter being inclined, the tablets *t* slide down and when the end of the groove 7 is uncovered by the end 29 of the carrier 16 one of the tablets is pushed or falls on to its upper end. When the drawer is withdrawn, the carrier 16 is raised with the tablet thereon level with or above the incline 19 at the top of the pathway. In this position the tablet will slide down the incline into the notch or rest 18 and this action may be assisted by a light spring such as 30. When the drawer is pushed full home again, the carrier 15 rises above the stop 18 and by means of the extension 20 lifts the tablet out of the notch, the extensions 20 engaging with the fingers 17 of the tablets. The extensions 20 being inclined on the top, the tablet will fall into the notch 31 so that when the drawer is withdrawn again, the tablet is lowered with the carrier 15 until it comes in contact with the projection 21, and when the extension 20 falls below the groove 7 the tablet slides down the latter and forms the last one of the pack.

The tablets *t* may consist of a frame such as 32 made of thin metal and filled in with transparent or semitransparent material such as celluloid or glass. The advertisements may be printed or painted thereon or preferably the matter may be printed on thin transparent paper or the like, and afterward cemented to the tablet.

It is proposed to intermittently illuminate the tablets, and when they are transparent they may be illuminated from behind, by means of an electric lamp. The drawing shows an arrangement by which the tablet suspended behind the window can be illuminated when the drawer is withdrawn. The

lamp represented by 33, is secured in a bracket 34, and in the circuit 35 is a switch 36 normally open. The switch lies in the path of the carrier 15 so that when the latter is in its lowest position it has closed the switch. The switch may obviously be actuated by the carrier 16 in a similar manner.

The front 1 of the apparatus is preferably made to open so as to enable the tablets to be easily removed and replaced.

It is obvious that the pushing in of the cash drawer may wind up the spring or a separate lever or handle may be used to effect the operation and the movement of the handle may release the drawer when such is used.

What I claim as my invention and desire to secure by Letters Patent of the United States is:—

An advertising device comprising in combination, a casing having a display opening and inset guideways disposed in parallel relation with respect to each other, each guideway having a top portion inclined downwardly toward the display opening and a lower portion inclined downwardly away from the display opening, a plurality of pendulous display cards having extensions projecting into said guideways, carriers slidable in said guideways and having carrier portions for engaging said extensions to elevate and lower said cards, pulleys, straps trained over said pulleys and having their ends secured to the carriers, means connected with one of said carriers and normally acting to lower the same and elevate the remaining carrier, and a manually operable member connected with said remaining carrier to operate the same in opposition to said means, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM ROWLAND HARVEY.

Witnesses:

RIDLEY JAMES URQUHART,
WALTER BERESFORD.