Jan. 30, 1923. 1,443,679

S. CREWE.
DISPLAY APPARATUS.
FILED OCT. 7, 1920.

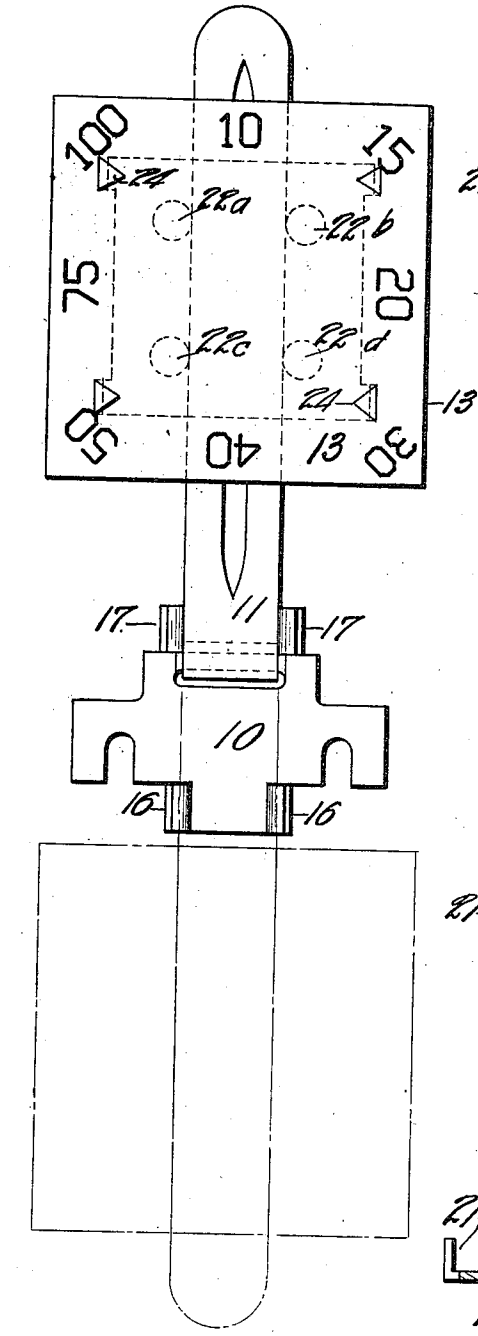


FIG. 1

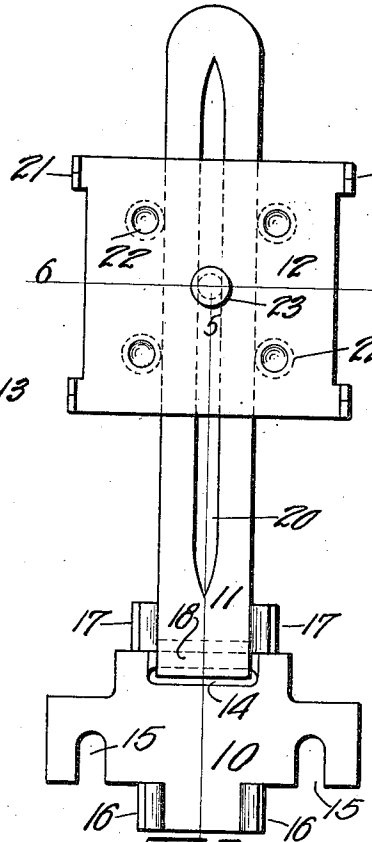


FIG. 2

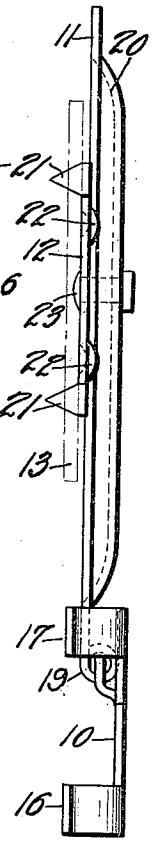


FIG. 3



FIG. 4

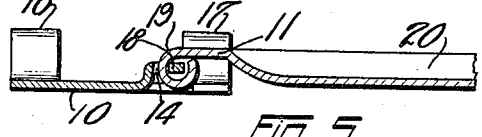


FIG. 5

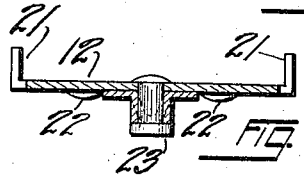


FIG. 6

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UNITED STATES PATENT OFFICE.

SAMUEL CREWE, OF EAST CLEVELAND, OHIO.

DISPLAY APPARATUS.

Application filed October 7, 1920. Serial No. 415,338.

To all whom it may concern:

Be it known that I, SAMUEL CREWE, a citizen of the United States, residing at 1749 Collamer Avenue, East Cleveland, county of Cuyahoga, and State of Ohio, have invented a new and useful Display Apparatus, of which the following is a specification.

My invention relates to display apparatus wherewith a sign or other means of display may readily be closed or disclosed to view, and the object of my invention is to provide means whereby the above may be accomplished in an economical and efficient manner.

In many instances, ice delivery for instance, it is desirable that some information be given the ice man as to how much ice is required without compelling the ice man to leave his wagon and call at the house to inquire as to the amount of ice required and then return to the wagon to deliver the ice.

An apparatus to accomplish purposes similar to the above is shown in the accompanying drawing in which Fig. 1 is a front view of a display apparatus with the sign attached and also showing, in dot and dash lines, how the apparatus appears when the sign is closed to view; Fig. 2 is a plan view of the apparatus without a sign; Fig. 3 is a side view of Fig. 2; Fig. 4 is an end view of Fig. 2; Fig. 5 is a section on line 5—5 of Fig. 2; Fig. 6 is a section on line 6—6 of Fig. 2.

Similar reference numerals refer to similar parts throughout the views.

The apparatus disclosed in the drawing is composed of the bracket 10, the arm 11, the sign holder 12, and the sign 13.

The bracket 10, preferably made of sheet metal stamping, has the opening 14, openings 15, the lock ears 16 and 17, and the bar 18. The ears 16 and 17 are bent up from the main body of the bracket substantially as shown and are closer together at the top than the width of the arm 11 but further apart at the bottom than the width of the arm 11; the purpose wherof will appear hereinafter.

The arm 11, preferably made of sheet metal stamping, has the eye 19 bent around the bar 18 to form a hinge joint, and also has the depressed or embossed rib 20 for the purpose of stiffening the arm 11.

The sign holder 12, preferably made of sheet metal stamping, has the pointed ears 21 for the purpose of piercing and holding the sign 13, has the depressed or embossed humps 22 on the under side and located so that the edge of each hump coincides with the edges of the arm 11 as seen in Figs. 1 and 2; the purpose therefor will appear hereinafter. The sign holder 12 also has a central opening through which the swivel pin 23 passes. This pin 23 serves the purpose of securing the sign holder 12 to the arm 11 in such a manner that the sign holder 12 may swivel or turn thereon.

The sign 13, in this instance made of card board, has the figures "10, 15, 20, 30, 40, 50, 75, and 100" and is secured to the sign holder 12 by piercing the same with the ears 21 and then bending the ends 24 of the ears 21 down upon the sign, thereby holding the sign firmly to the sign holder.

Concerning the operation of the apparatus shown and described: When the apparatus is made up as shown and having the sign attached as shown, the bracket 10 is secured to some convenient support by means of screws passing through the openings 15. In the drawing, the apparatus is shown in a vertically operative position but a horizontal or other position may be adapted since the sign can be rotated. When it is desired to display the figure "10" for instance, the sign is rotated until the figure "10" is located near the outer end of the arm 11 as shown in Fig. 1; the arm 11 is then swivelled upward on the pivot 19 until the sides of the arm 11 touch the upper curved portions of the lock ears 17; a slight pressure against the front of the arm 11 will cause the upper ends of the ears 17 to spring apart and permit the arm 11 to pass the narrow space between the top of the ears and lodge in the wider space between the ears 17 below the upper curves. As soon as the arm 11 has passed the narrow space between the top of the ears 17, the upper portions of these ears will tend to spring back to their original position and thereby wedge the arm 11 inward and hold it there due to the angular disposition of the ears 17.

When it is desired to display no sign, the arm 11 is swivelled downward by pulling outwardly on the arm 11 to overcome the spring of the ears 17 and to release the lock and then swivelling the arm way down until the sides thereof touch the upper curved portion of the lock ears 16; a slight pressure on the arm inwardly will then lock the same in the lower and closed po-

sition similar to the lock in the upper position previously described.

When it is desired to display a figure other than the "10" shown, figure "20" for instance, rotate the sign holder 12 on the swivel pin 23 until the figure "20" is nearest the outer end of the arm 11. It will be noted that when rotating the sign holder 12 one or more of the humps 22 must pass over the arm 11 and some pressure must be applied to spring the outer portions of the sign holder 12 upward to permit these humps to pass over the arm. When these humps have passed over the arm, the outer portions of the sign holder tend to spring back to their original position and the humps will lay alongside of the sides of the arm and hold the sign holder in position. When the figure "20" is near the outer end of the arm, the hump 22^b will take the position of the hump 22^a shown in Fig. 1 and the remaining humps will take corresponding positions. It will be seen that the edges of the humps touch the sides of the arm and hold the sign holder in position; the sign can not be changed or rotated unless some pressure is applied.

When it is desired to display the figure "50", the sign holder is rotated as previously described until the figure "50" is near the outer end of the arm 11; in this instance the humps 22^b and 22^c will engage the depression of the embossed rib 20 and hold the sign holder in position.

The apparatus shown and described provides a convenient display apparatus which automatically locks itself in either open or closed position, which automatically locks the sign in adjusted position, which is economical of construction, and efficient in operation.

The apparatus shown and described may be modified in various manners and the sign shown may be substituted for other sign without departing from the spirit of this invention.

Without limiting myself to the precise construction shown and described,

I claim:

1. An apparatus of the character described comprising a bracket, an arm hinged to said bracket and provided with a longitudinal depression, and a sign holder rotatably mounted on said arm and provided with projections adapted to successively engage the edges of said arm and said depression thereon to hold said holder in different positions.

2. An apparatus of the character described comprising a bracket having two pairs of upwardly extending ears, an arm hinged to said bracket and adapted to be held in either up or down position by said ears and provided with a longitudinal depression, and a sign holder rotatably mounted on said arm and provided with projections adapted to successively engage the edges of said arm and said depression thereon to hold said holder in different positions.

3. An apparatus of the character described comprising a bracket provided with upwardly extending ears, an arm hinged to said bracket and adapted to be held in either up or down position by said ears, a sign holder rotatably mounted on said arm and provided with means for holding the same in desired position on said arm and provided with upwardly extending spurs adapted to pierce a sign and then to be bent over said sign to secure the same to said holder.

4. An apparatus of the character described comprising a bracket formed with two pairs of upwardly extending ears, an arm hinged to said bracket and adapted to be held in either up or down position by said ears and provided with a longitudinal depression, and a sign holder rotatably mounted on said arm and provided with projections adapted to successively engage the edges of said arm and said depression therein to hold said holder in different positions.

5. An apparatus of the character described comprising a bracket formed of one piece with a pintle bar and an opening adjacent thereto and with two pairs of upwardly extending ears, an arm formed of one piece with a sleeve which passes through said opening and encircles said pintle bar to form a hinge and with a longitudinal depression and being adapted to be held in either up or down position by said ears, a sign holder rotatably mounted on said arm and provided with projections adapted to successively engage the edges of said arm and the said depression therein to hold said sign holder in different positions, and a sign secured to said holder.

SAMUEL CREWE.