July 24, 1934. M. S. YOUNG 1,967,699

DISPLAY STAND

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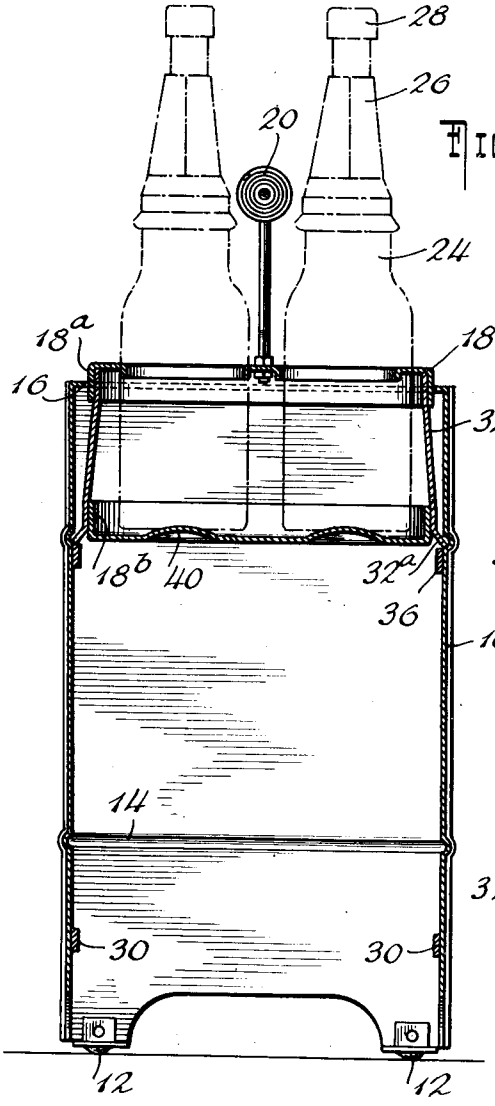


Fig. 2.

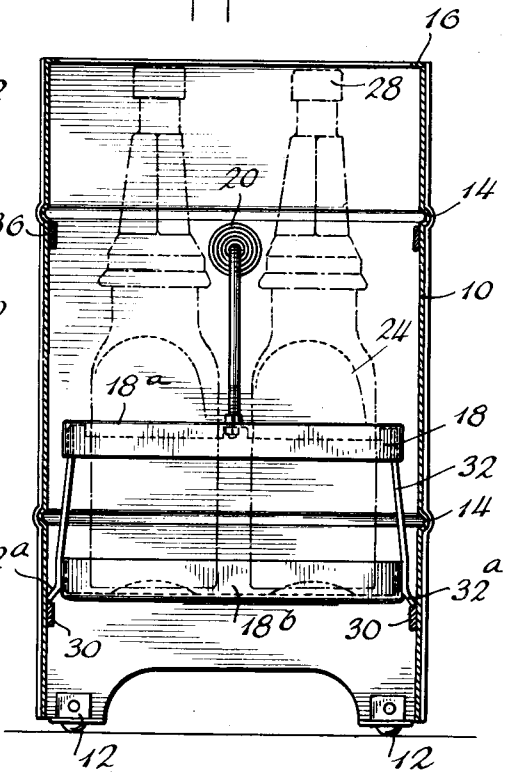


Fig. 1.

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Fig. 3.

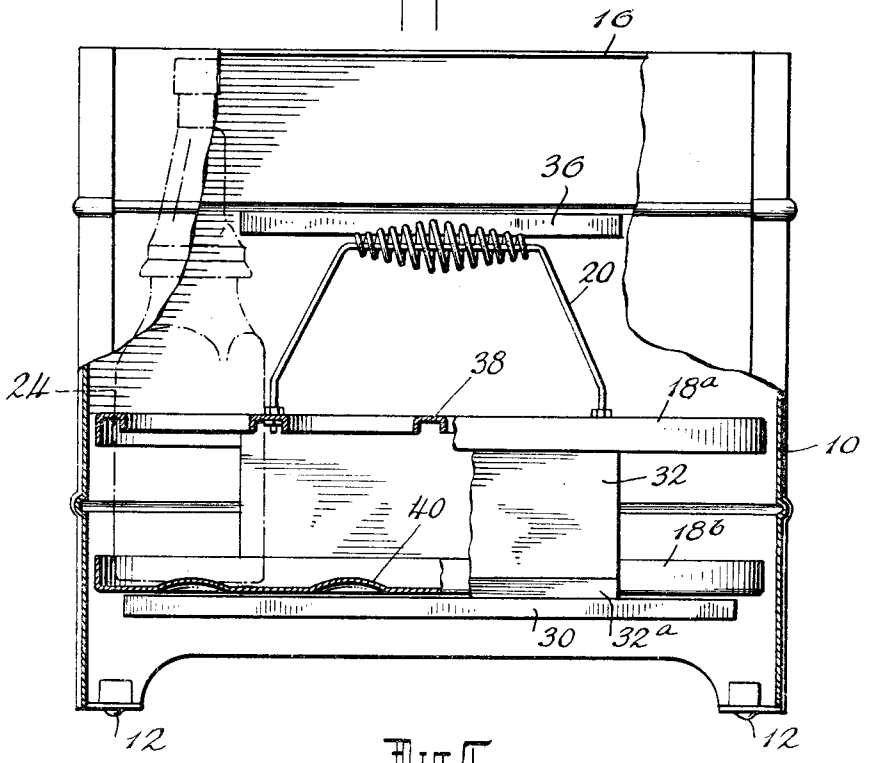
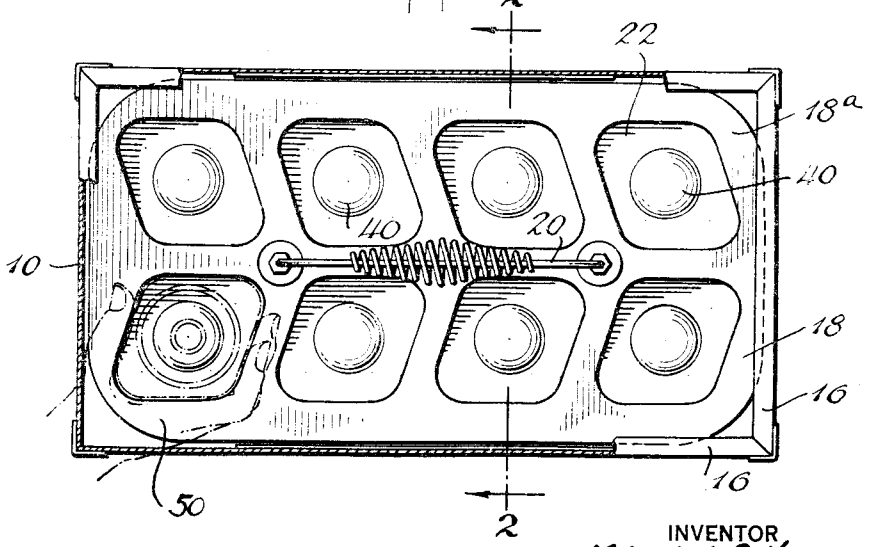


Fig. 4.



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DISPLAY STAND

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Application November 22, 1930, Serial No. 497,367

4 Claims. (Cl. 211—74)

This invention relates to a stand adapted to support and display a set of receptacles, such as the bottles from which lubricating oil is commonly dispensed for use in automobile engines. One object of the invention is to produce a stand in which the bottles are held in a tray, provided with suitable spacing means, and the tray is normally supported at the top of a box-like body, but in which the tray and bottles may originally be housed entirely within the body for safety and compactness in storage and shipment. Another object of the invention is to provide for a minimum bulk in the outfit, consistent with convenient use, by provision for the use of bottles of a particular form.

To the foregoing ends the invention consists in the display stand hereinafter described and illustrated in the accompanying drawings, as it is defined in the annexed claims.

In the drawings:

Fig. 1 is an end elevation of a display stand embodying the present invention, with the body shown in section and the tray in its lower position.

Figure 2 is a vertical section substantially on the line 2—2 of Figure 4 with the tray in its upper or display position.

Figure 3 is a side elevation with parts broken away to show the internal construction; and

Figure 4 is a top plan view of the display stand.

The illustrated embodiment of the invention comprises a box-like body 10 which is rectangular in shape. The body is made of sheet metal, stiffened by corrugations 14, and has supporting feet 12 at the corners. The body is also provided with an inwardly extending projection 16 along the top edge thereof which acts as a stop, as will be hereinafter seen.

Within the body is mounted a tray 18 which is formed of a pair of spaced plates 18*a* and 18*b* connected by stay plates 32. The upper plate 18*a* is provided with a handle 20 and with a plurality of diamond shaped openings 22 in which may be placed a plurality of diamond shaped bottles 24 for lubricating oil.

The bottles are shown, in dotted lines, as provided with pouring spouts 26 and caps 28. As will be noted in Figure 1, the tray in shipping position is adapted to rest on supports 30 which are narrow strips of metal, welded or otherwise permanently secured to the inside of the side walls of the container. These supports are engaged by the outwardly projecting lower edges of the side plates 32 of the tray, and in this position of the parts the tray and its handle, and the bottles and their attachments are entirely within the body, so that the outfit may be packed conveniently in an ordinary carton.

Upon reecipt by the dealer of the outfit, the handle 20 is grasped and the tray 18 is raised to the position shown in Figure 2, and in this position the projecting edges 32*a* of the side plates 18 contact with the upper supports 36 which are similar to the lower supports 30 and similarly extend along the sides of the container. In this position the tray 18 extends above the top of the body and holds the bottles 24 in open view and so that they may be readily removed and replaced as desired.

The side plates 32*a* on the tray 18 are adapted to hold the tray locked in the upper position and normally the tray cannot be dislodged or removed from the upper position. It is unnecessary to lower the tray after having once been moved into position inasmuch as in normal use it is always desirable to have the bottles in clear view of the consumer.

The tray is usually provided with eight individual openings 22 adapted to hold eight one-quart diamond shaped bottles, and the tray is provided with diamond shaped openings located with their flat sides parallel and with sufficient spacing to permit each bottle to be grasped as indicated by the hand 50 in Figure 4, so that the oil will be poured from the acute angled edge of the bottles. It will be evident that with diamond-shaped bottles this spacing may be provided with less length in the tray than if round bottles of the same cross-sectional area were used, so that for bottles of a given height and capacity the bulk of the outfit is reduced.

The lower plate 18*b* of the tray is provided with embossed supports 40 to hold the bottles clear of any oil which may have drained into the tray.

The inturned flanges 16 at the top of the body act as stops to prevent complete removal of the tray and to permit the entire outfit to be carried by the handle 20.

I claim:

1. In a display stand, the combination of a tray provided with an upwardly projecting handle by which it may be raised and with laterally projecting resilient supporting members, and a box-like body, of greater height than the tray and its handle, in which the tray fits and is vertically movable, the body being provided, at its inner surface, with means for preventing complete withdrawal of the tray and means cooperating with said supporting members to lock the tray in elevated position adjacent the top of the body.

2. In a display stand, the combination of a tray provided with an upwardly projecting handle, a box-like body open at the top and of a greater height than the tray and its handle, the body being provided, on the inner surfaces of its walls, with supporting strips near the bottom of said walls and near the top of said walls, and means for engaging either of said strips and supporting the tray either near the bottom of the body and with the tray and its contents housed therein, or at the top of the body and with its contents displayed.

3. In a display stand, the combination of a relatively deep box-like body with parallel side walls, a relatively shallow tray fitting and vertically movable in the body, the tray having means for spacing rows of diamond-shaped bottles with their flat sides parallel and with a definite clearance between said sides sufficient to permit each bottle to be grasped by said walls, and means for permanently retaining the tray in raised position at the top of the body.

4. In a display stand, the combination, with a relatively deep box-like body, of relatively shallow tray, vertically movable within the body, the tray comprising a lower imperforate plate, an upper plate with a marginal downwardly extending flange and with openings for the reception of bottles, and side-plates connecting said upper and lower plates and projecting laterally at their lower edges, the body being provided, near the top, with means for engaging said edges to retain the tray in raised position within the body.

MARVIN S. YOUNG.