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DISPLAY APPARATUS

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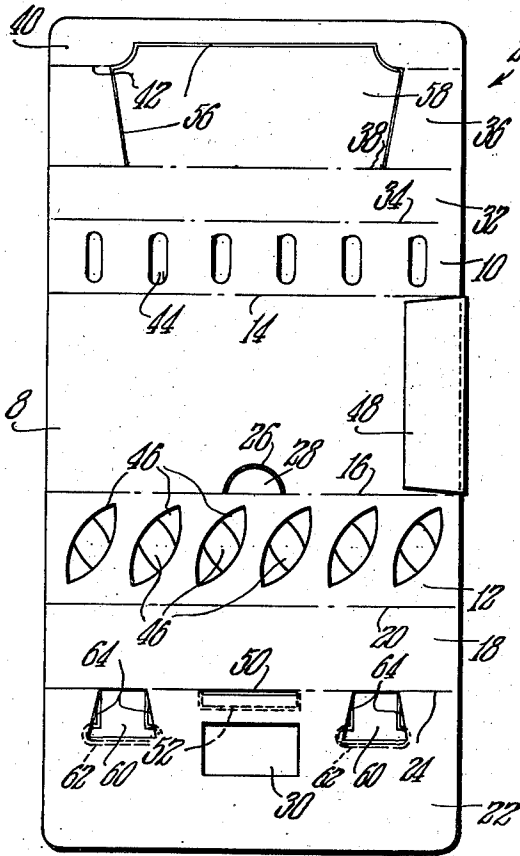
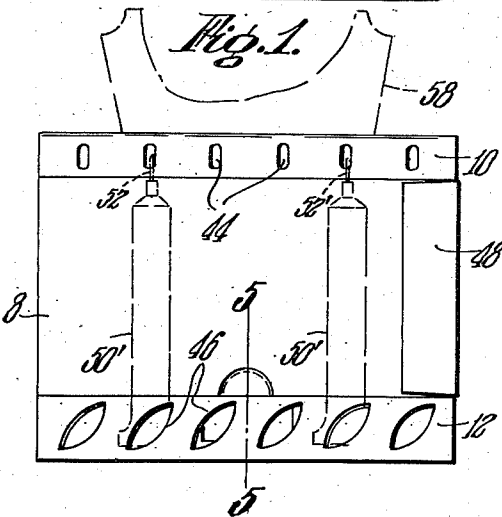


Fig. 3.

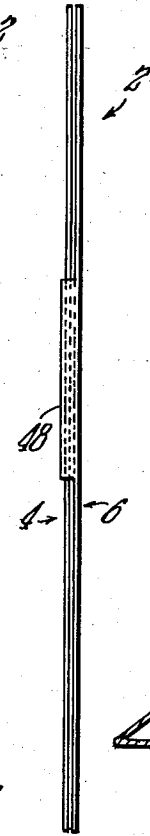


Fig. 4.

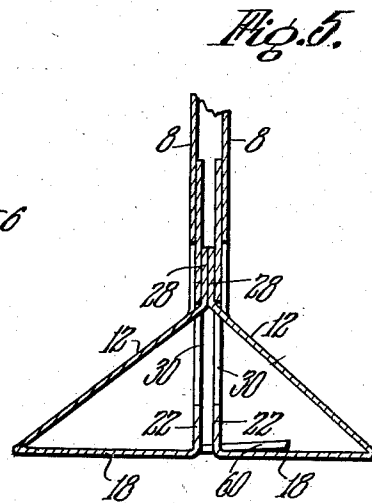


Fig. 5.

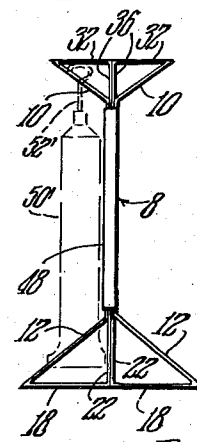


Fig. 6.

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DISPLAY APPARATUS

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2 Claims. (Cl. 248—174)

1

This invention relates to display and shipping apparatus.

The principal object of this invention is the provision of display and shipping apparatus which is of novel construction to facilitate economy in manufacture and efficiency in use.

The novel features of the invention will be hereinafter more fully referred to in connection with the following description of the invention.

With the foregoing and various other novel features and advantages and other objects of my invention as will become more apparent as the description proceeds, the invention consists in certain novel features of construction and in the combination and arrangement of parts as will be hereinafter more particularly pointed out in the claims hereunto annexed and more fully described and referred to in connection with the accompanying drawings wherein:

Fig. 1 is a plan view of a blank arranged and adapted to provide the display apparatus of the invention;

Fig. 2 is an edge view of the blank shown in Fig. 1;

Fig. 3 is a front elevational view of the display apparatus;

Fig. 4 is a side elevational view of the apparatus shown in Fig. 3;

Fig. 5 is a sectional view on the line 5—5 of Fig. 3; and

Fig. 6 is a perspective view of a display plaque of the apparatus.

Referring now to the drawings more in detail the invention will be fully described.

A blank 2 is provided which is folded transversely to have front and rear side portions 4 and 6.

Previous to folding the front and rear portions they are formed similarly to have central front and rear panels 8, upper article supporting panels 10 and lower article supporting panels 12 hinged to upper and lower edges of the panels 8 as at 14 and 16.

Lower supporting panels 18 are hinged to panels 12 to 20 and locking panels 22 are hinged to said panels 18 at 24. Slits 26 are provided in panels 8 to form locking tabs 28 and openings 30 are provided in panels 22 for receiving the tabs 28, as will later appear.

Longitudinal spacing panels 32 are hinged at 34 to the panels 10 and locking panels 36 are hinged thereto at 38. Other locking panels 40 are hinged at 42 to the panels 36. The panels 10 and 12 are provided with openings or sockets 44 and 46.

2

With the front and rear sections formed as described they are secured in back to back superposed relation by a flap 48 which is hinged to one central panel 8 and overlies and is secured to the other central panel 8.

There may be a slot 50 in one section for receiving a tab 52 cut from the other section. Said tab and slot may not be necessary in all cases but will serve when engaged to lock the parts in set up relation when desired and necessary. Locking tabs 60 are formed by slits 62 in one member 22, are bendable on line 24 and are receivable in openings 64 when the parts are in set up relation shown in Fig. 5 and may be used when desired.

The blank is set up in the manner now to be described.

The lower article supporting panels 12 are bent angularly outwardly and the supporting panels 18 are bent inwardly relative thereto with the panels 22 bent upwardly in superposed relation and inserted between the central panels 8.

The panels 22 are moved upwardly between the panels 8 sufficiently for the tabs 28 to be pressed inwardly through the openings 30 therein. Then the panels 22 are moved downwardly so that the tabs 28 are disposed behind the panels 22, as shown in Fig. 5.

In this way the panels 22 are held by the tabs 28 against displacement from between the central panels 8. The panels 10 are bent outwardly and the panels 32 are brought into parallelism with the panels 40 and portions of the panels 36 inserted in superposed relation between the panels 8.

The panels 18 provide a support for the structure and the construction is such that the article supporting panels 12 are held in the angular position shown.

The panels 36 and 40 between the panels 8 in conjunction with the spacing panels 32 hold the upper supporting panels in their angular relation.

The panels 10 and 12 at opposite sides of the structure and at upper and lower sides of the central panels are thus held in relatively diverging relation for supporting various objects.

The openings 44 and 46 in the supporting panels may take various forms for supporting various objects thereby to display them. Collapsible tubes 50' are shown in dash lines as an example which have lower ends disposed in the openings 46 while wire loops 52' at their upper ends are disposed in the openings 44.

The openings will be formed to receive oppo-

3

site ends of the articles to be displayed in such a way that the articles will not be displaced. And the display device may be packed in a box or carton in such a way that the articles are held from the sides of said carton and therefor protected against injury.

The panels 36 and 40 may be provided with a slit 56 forming plaque sections 58 which may carry display or advertising matter. These sections 58 may be disposed between the central panels or they may project upwardly as shown by dash lines 58 in Fig. 3. Otherwise or in addition to the sections a display card or cards carrying advertising or other matter may be provided for shipping between the members 36 at the upper end of the device. And the panels 8 and other portions of the device may carry advertising or other matter.

A display panel 66 is shown in Fig. 6 which may be formed from a single sheet, plural sheets, or from a single sheet doubled upon itself. It is adapted to carry printed matter and may be inserted between the members 36 when the device is in set up relation.

Altogether the device is simple in form and being made from a single sheet of material it is economical to manufacture. At the same time the novel construction provides a practical and efficient device for displaying objects which is adaptable for ready and easy packing and shipment in such a way as to protect the objects to be displayed thereby.

The invention may be embodied in other specific forms without departing from the essential characteristics thereof. Hence, the present embodiments are therefore to be considered in all respects merely as being illustrative and not as being restrictive, the scope of the invention being indicated by the appended claims rather than by the foregoing description, and all modifications and variations as fall within the meaning and purview and range of equivalency of the appended claims are therefore intended to be embraced therein.

What it is desired to claim and secure by Letters Patent of the United States is:

1. A display structure comprising in combination, a central panel, an upper object supporting panel extending outwardly from the upper longitudinal edge of said central panel and being provided with slots elongated perpendicularly relative to the longitudinal axis of said panel, a lower object supporting panel extending outwardly from the lower longitudinal edge of said central panel and being provided with slots angularly disposed relative to the longitudinal axis of said panel, a lower supporting panel extending horizontally inwardly from the lower marginal

4

edge of said object supporting panel, an upper supporting panel extending horizontally from the upper marginal edge of said upper object supporting panel, a lower locking panel extending upwardly from the inner marginal edge of said lower supporting panel and disposed in superposed relation on said central panel, and an upper locking panel extending downwardly from the inner marginal edge of said upper supporting panel and disposed in superposed relation on said central panel, all adapted and arranged with said object supporting panels being angularly disposed whereby the opposite ends of objects are held in the openings in said objects supporting panels and the objects themselves are held in vertical alignment.

2. A display structure comprising in combination, a central panel, upper object supporting panels extending outwardly from upper longitudinal edges of said central panel, and being provided with slots elongated perpendicularly relative to the longitudinal axis of said panel, lower object supporting panels extending outwardly from lower longitudinal edges of said central panel, and being provided with slots angularly disposed relative to the longitudinal axis of said panel, lower supporting panels extending horizontally inwardly towards each other from the lower marginal edges of said lower object supporting panels, upper supporting panels extending horizontally inwardly towards each other from the upper marginal edges of said upper object supporting panels, lower locking panels extending upwardly from the inner marginal edges of said lower supporting panels and disposed in superposed relation on said central panel, and upper locking panels extending downwardly from the inner marginal edges of said upper supporting panels and disposed in superposed relation on said central panel, all adapted and arranged with said object supporting panels being angularly disposed whereby the opposite ends of objects are held in the openings in said object supporting panels and the objects themselves are held in vertical alignment relative to the display structure.

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