

March 22, 1932.

O. E. KARNES

1,850,079

DISPLAY STAND

Filed June 16, 1930

3 Sheets-Sheet 1

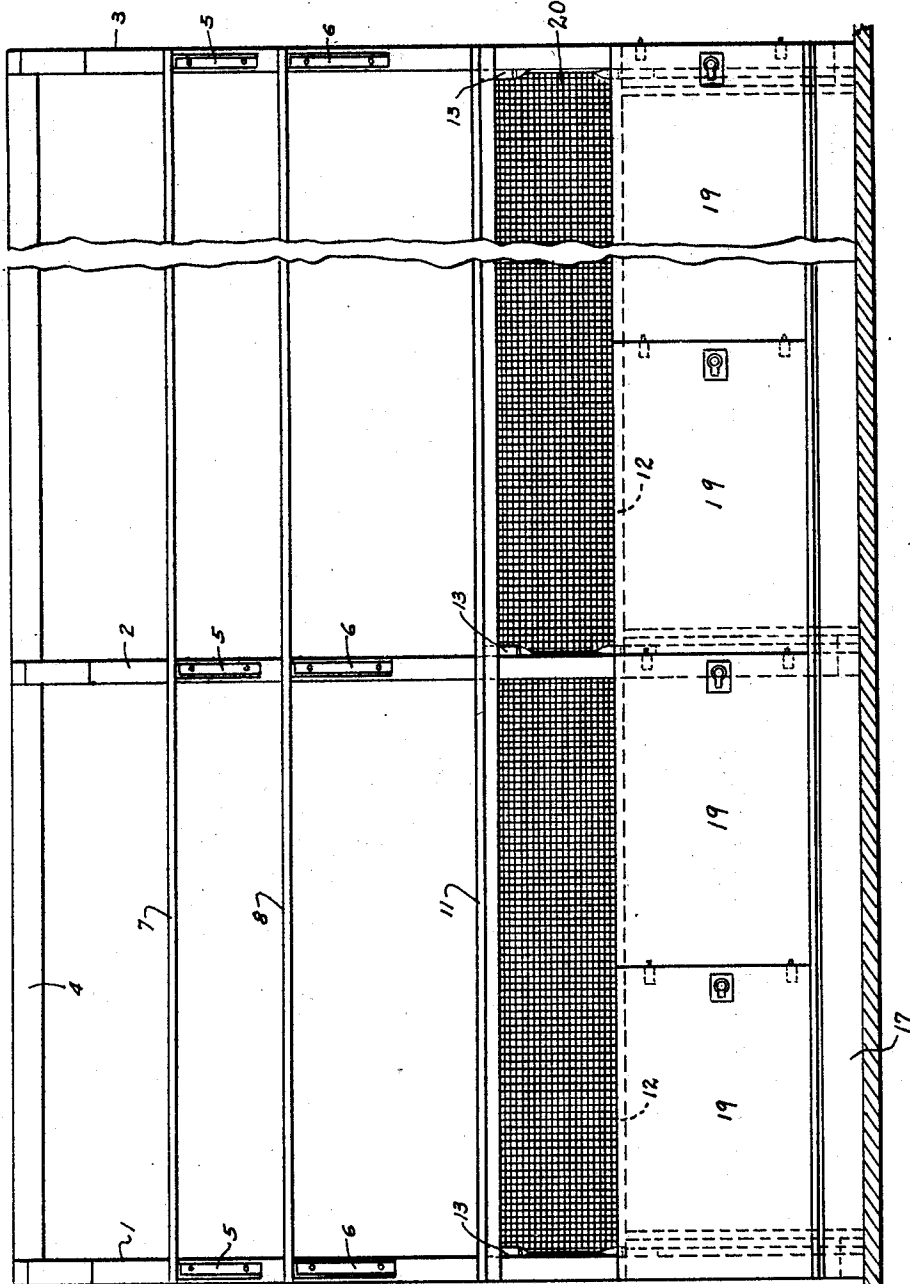


Fig. 1.

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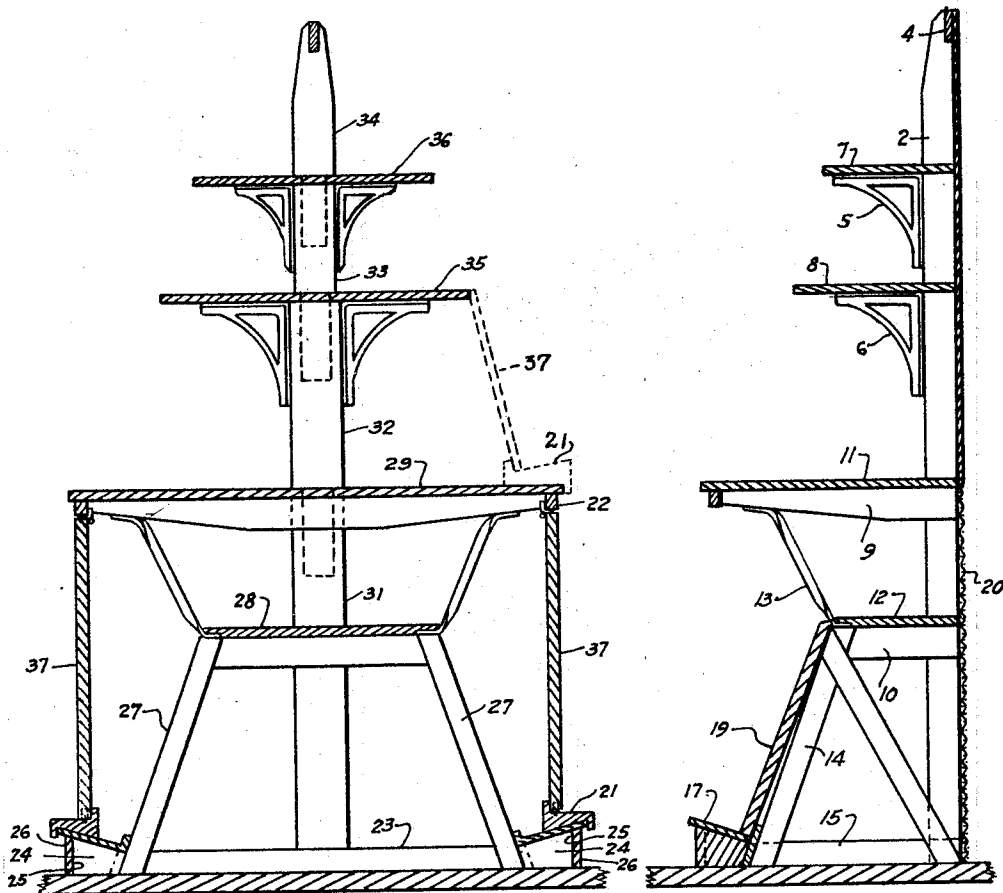


Fig. 3.

Fig. 2.

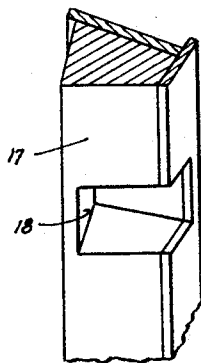


Fig. 5.

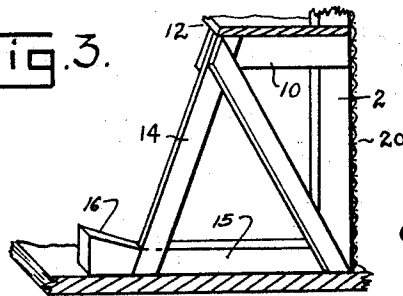


Fig. 4.

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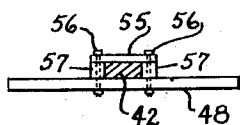


Fig. 8.

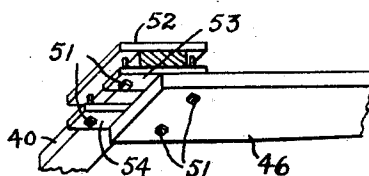


Fig. 9.

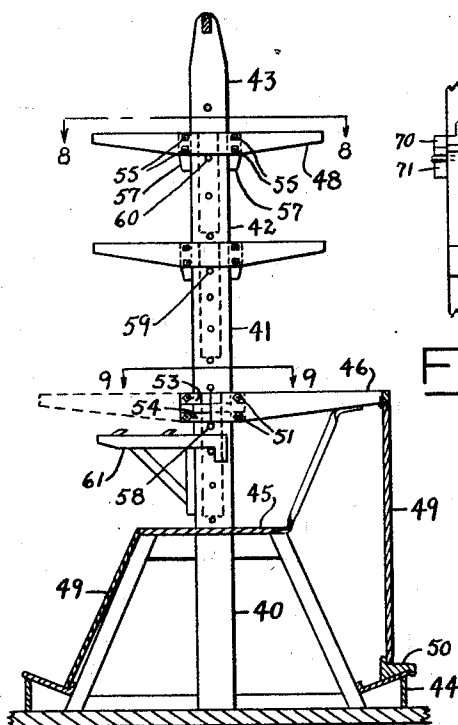


Fig. 6.

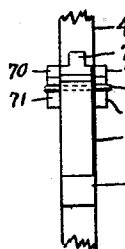


Fig.10.

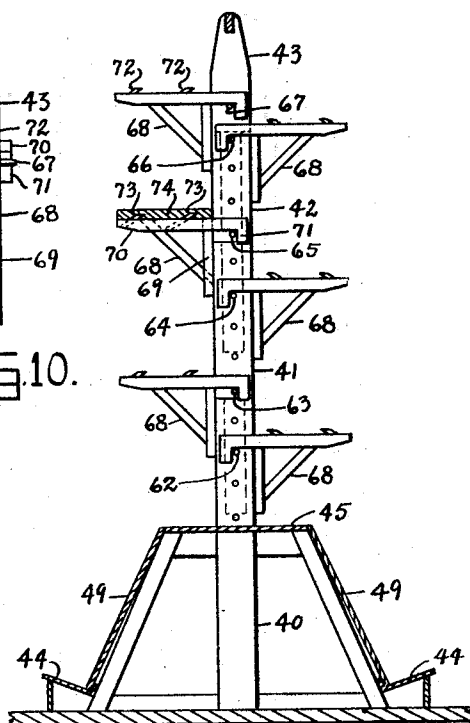


Fig. 7.

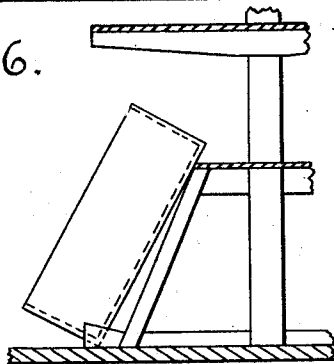


Fig.11.

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UNITED STATES PATENT OFFICE

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DISPLAY STAND

Application filed June 16, 1930. Serial No. 461,296.

This invention relates to display stands.

It has for its general object the provision of a new and improved display stand particularly adapted for use in grocery stores to attractively display and to render easily accessible to the customer the merchandise to be sold.

A more specific object of the invention is to provide a display stand, the separable elements of which may be cheaply manufactured, and quickly and easily assembled and taken apart by an unskilled person.

Another specific object of the invention is to provide a display stand having a portion which may be readily converted into a storage bin.

Other objects will hereinafter appear.

The preferred embodiments of the invention are illustrated by the accompanying drawings, of which Fig. 1 is a front elevation of a display stand adapted to be placed against a wall; Fig. 2, a sectional end elevation of the same; Fig. 3, a sectional end elevation of a display stand adapted to be placed in the center of a store; Fig. 4, a detail view of the lower portion of the stand shown by Fig. 2 with the lowermost shelf removed; Fig. 5, a detail view of the lowermost shelf; Figs. 6 and 7, end elevations of modified forms of the stand adapted to be placed in the center of a store; Figs. 8 and 9, detail views taken on the lines 8—8 and 9—9, respectively, of Fig. 6; Fig. 10, a detail front view of the shelf supporting means shown by Fig. 7; and Fig. 11, a detail view of the lower portion of a stand with the lowermost shelf removed and a box resting against the second shelf.

The stand shown by Figs. 1, 2, 4 and 5, which is adapted to be placed against a wall, includes a plurality of vertical posts 1, 2 and 3, the upper ends of which are connected by the rod 4.

Upon the posts 1, 2 and 3 are mounted the brackets 5, 6, 9 and 10. The brackets 5 support the shelf 7; the brackets 6, the shelf 8;

the brackets 9, the shelf 11; and the brackets 10, the shelf 12. The shelf 11 is of a width considerably greater than the width of any of the other shelves. The shelf 8 is of a width greater than the width of the shelves 7 and 12. Struts 13 may be disposed between the brackets 9 and 10.

Each of the transverse braces 15 is connected to and extends outwardly from one of the posts 2, and has an enlarged outer end with an upper surface 16 inclined inwardly and downwardly (Fig. 4). The first shelf 17 is provided with a plurality of sockets 18 (Fig. 5) shaped for the reception of the enlarged outer ends of the braces 15.

Extending upwardly and inwardly from the outer ends of the braces 15 are the supports 14.

Upon its sides on the shelf 17 and resting against the shelf 12 is a panel 19, as shown by Fig. 2.

It will be apparent that the stand shown by Figs. 1, 2, 4 and 5, and just described, will attractively display the merchandise for sale. The first shelf 17 has an upper surface inclined downwardly and inwardly so that cans of coffee or the like may be stacked upon it and made to recline against the panel 19 up to the second shelf 12. Upon the second shelf 12, the third shelf 11, the fourth shelf 8, and the fifth shelf 7 other merchandise may be attractively grouped. The stand may, therefore, be practically concealed by merchandise. The shelf 17 may easily be removed so that the base of the stand may be cleaned.

It will be noted that the lower rear portion of the stand is provided with a wire screen 20. An elongated member substantially Z-shaped in cross section, corresponding to that indicated by the numeral 21 in Fig. 3, may be placed upon the first shelf 17, and each of the panels 19 may be removed from the shelves 17 and 12, and placed so that its end rests upon the member 21. It will then extend to the third shelf 11 to

which it may be connected by means indicated by the numeral 22 in Fig. 3. The lower portion of the stand may be thereby quickly and easily converted into a storage bin.

Referring now to Fig. 3, which discloses a stand adapted to be placed in the center of a room, it includes a brace 23 having enlarged ends 24 to fit in the sockets 25 of the first shelves 26. Supports corresponding to the supports 14 of Fig. 2, are indicated at 27; the second shelf at 28; and the third shelf at 29. The post is made in four telescopic sections, 31, 32, 33 and 34. The third shelf 29 is mounted upon the section 31; the fourth shelf 35, upon the section 32; and the fifth shelf 36, upon the section 33. The fourth shelf 35 is of a width less than the width of the third shelf 29; and the fifth shelf 36 is of a width less than the width of the fourth shelf 35. It will be apparent that if the section 34 be removed, the shelf 36 will form the top of a table; as will the shelf 35 upon removal of the section 33, and the shelf 29 upon removal of the section 32.

The panels 37 may be moved from the position shown and laid upon the shelf 26 and against the shelf 28 in a position corresponding to that shown by Fig. 2 or the member 21 may be placed on the shelf 29 and the panel placed thereupon and against the shelf 35, as indicated by dotted lines.

Figs. 6, 8 and 9 illustrate a modified form including a plurality of posts, one of which is shown made in telescopic sections 40, 41, 42 and 43; a first shelf 44; a second shelf 45; a third shelf 46; a fourth shelf 47; a fifth shelf 48; a panel 49, and an elongated member 50.

The shelf 46 is made in two sections which are removably secured to the post section 40 by bolts 51 and plates 52, 53 and 54, as shown in detail by Fig. 9.

The shelf 48 is removably secured to the post section 42 by bolts 55, plate 56, and spacers 57, the spacers 57 being of such a width that the shelf 48 is slidable vertically on the post.

The mounting of the shelf 47 is similar to that of the shelf 48.

The shelves 46, 47 and 48 rest upon the pins 58, 59 and 60, respectively, and vertically spaced holes are bored through the post sections, as shown, so that the shelves may be held at various elevations to display goods in containers of different dimensions.

The shelf bracket 61 on the form shown by Fig. 6 is constructed and mounted as are those illustrated by Figs. 7 and 10 which will now be described.

The form shown by Figs. 7 and 10 includes the post sections 40, 41, 42 and 43; the shelves 44 and 45 and the panels 49; all of which are shown by Fig. 6. The post sections are provided with similar pin holes

in which are inserted pins 62, 63, 64, 65, 66 and 67.

This form includes the shelf brackets 68, each of which comprises an upright bar 69 to rest against the post and a pair of arms 70 (Fig. 10) to embrace the post, said arms having hooks 71 to engage one of the pins. Mounted on the arm 70 are the lugs 72 which extend upwardly and inwardly to removably fit in socket 73 in the shelf 74. It will be obvious that when the shelf 74 is placed upon the arms 70 so that the lugs 72 enter the sockets 73, and the hooks 71 of the arms made to engage one of the pins on the post, the bracket will be held on the post and the shelf on the bracket.

Those skilled in the art will at once perceive that the preferred embodiment of this invention may be cheaply and easily manufactured; and that the elements thereof may be assembled by unskilled persons in different ways to display within the reach of the customer various sorts of merchandise, or assembled to provide storage bins that may readily be cleaned.

I claim:

1. A display stand having an outwardly presented, transverse brace having an enlarged outer end, the upper surface of said end being inclined inwardly and downwardly, and a shelf having a socket shaped for the reception of said end.

2. A display stand having a base, a brace transversely disposed on said base and having an enlarged outer end with an upper surface inclined downwardly and inwardly, and a removable shelf upon the outer portion of and co-extensive with said base and having a socket shaped to receive said end.

3. A display stand having an upright post, an upper shelf, a lower shelf, and an intermediate shelf, said shelves being attached to said post and vertically spaced, the outer side of said intermediate shelf being closer to said post than the outer sides of said upper and lower shelves, said lower shelf having an upper surface inclined inwardly and downwardly, a member which when placed upon said lower shelf has an upper surface substantially horizontal, and an elongated panel having a length substantially equal to the distance between said upper and lower shelves, and a width substantially equal to the distance between said lower shelf and said intermediate shelf, and constructed to rest on its side upon said lower shelf and against said intermediate shelf and movable therefrom on its end upon said member to extend to the upper of said shelves.

4. A display stand having an upright post, an upper shelf, a lower shelf, and an intermediate shelf, said shelves being attached to said post and vertically spaced, the outer side of said intermediate shelf being closer to said post and the outer sides of said upper

and lower shelves, an elongated panel constructed to rest on its side upon said lower shelf and against said intermediate shelf, the length of said panel being substantially equal
5 to the distance between said lower shelf and said upper shelf, and the width of said panel being substantially equal to the distance between said lower shelf and said intermediate shelf, and means to connect the ends of
10 said panel to the outer portions of said lower and upper shelves.

In testimony whereof I hereunto affix my signature.

ORIN E. KARNES.

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