Sept. 16, 1941. C. D. FALLERT 2,256,339

DISPLAY CABINET

Filed April 19, 1940 2 Sheets-Sheet 1

Fig. 1.

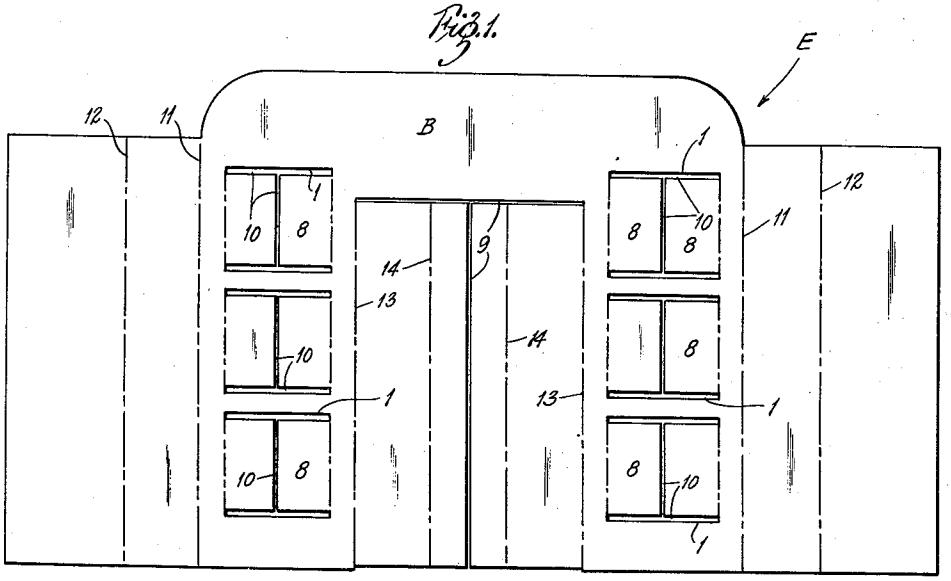


Fig. 2.

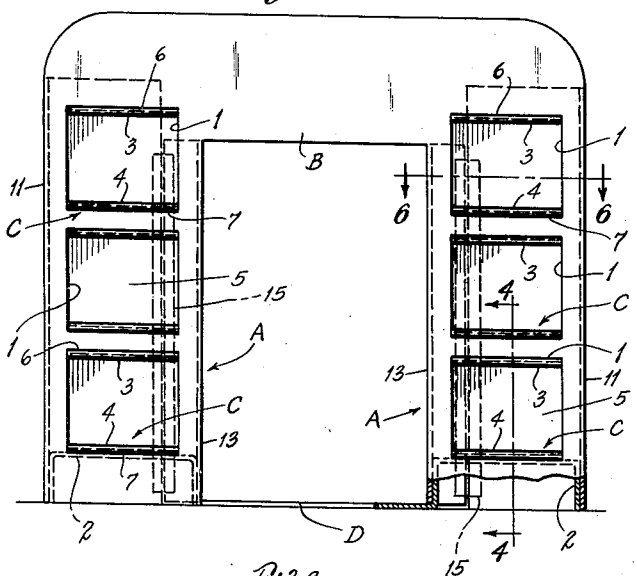


Fig. 4.

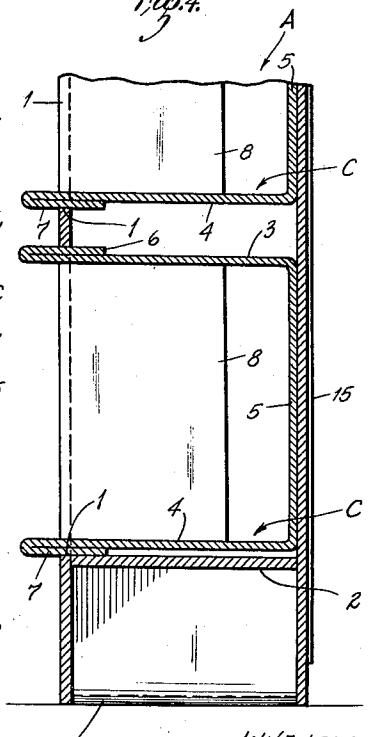
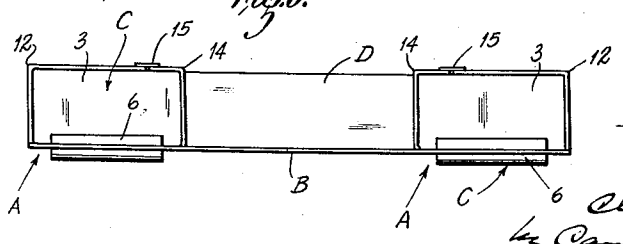


Fig. 3.



INVENTOR:

Clifford D. Fallert

by Cameron Brown Brumley

HIS ATTORNEYS.

Sept. 16, 1941. C. D. FALLERT 2,256,339

DISPLAY CABINET

Filed April 19, 1940 2 Sheets-Sheet 2

Fig. 9.

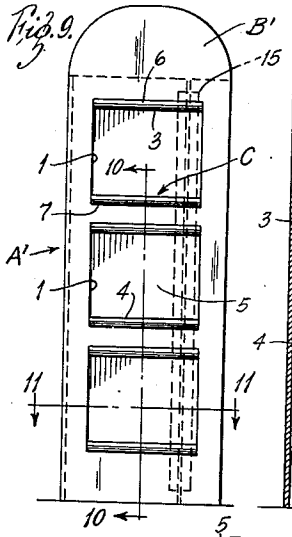


Fig. 5.

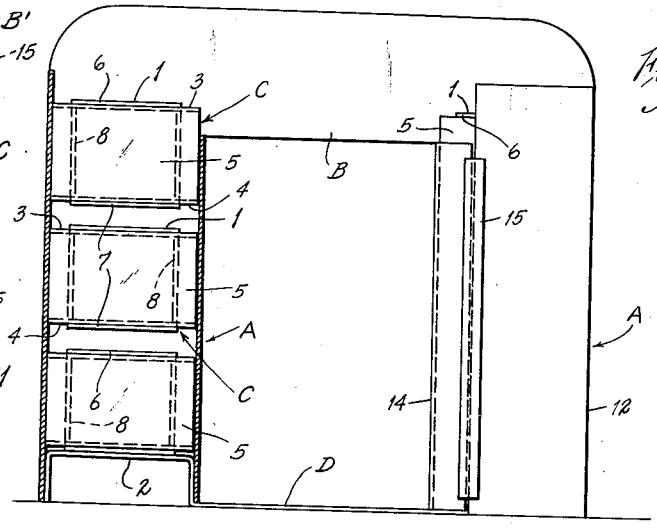


Fig. 10.

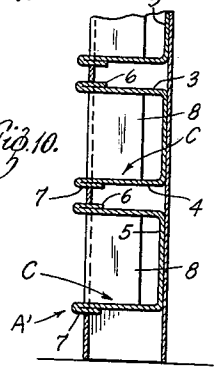


Fig. 6.

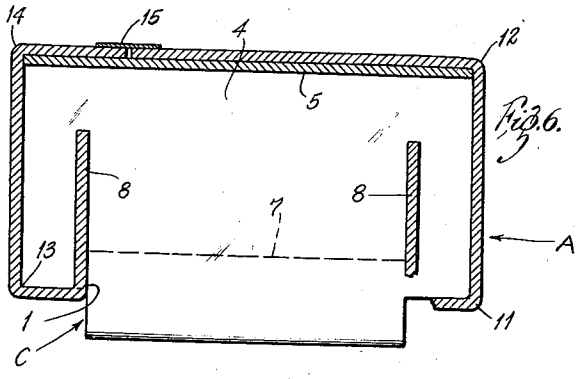


Fig. 11.

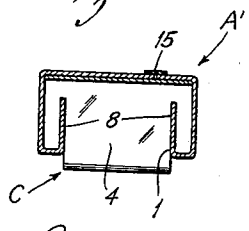


Fig. 8.

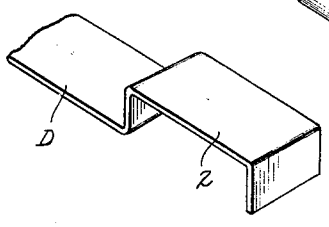
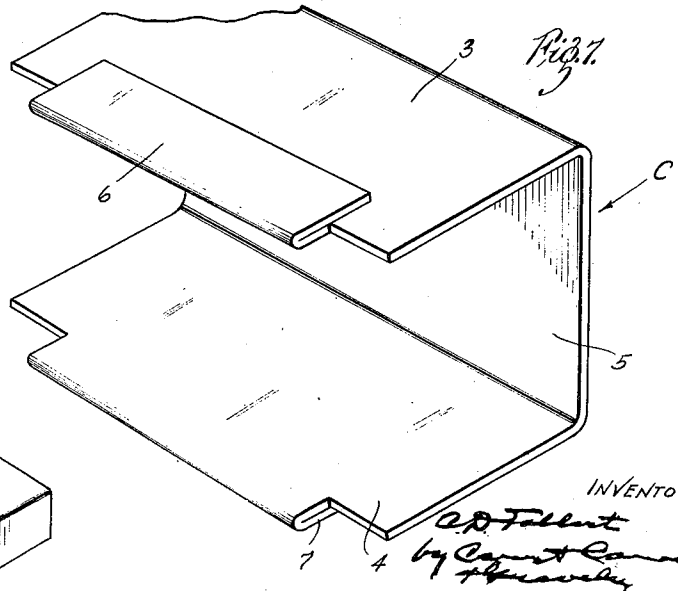


Fig. 7.



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Patented Sept. 16, 1941

2,256,339

UNITED STATES PATENT OFFICE

2,256,339

DISPLAY CABINET

Clifford D. Fallert, St. Louis, Mo., assignor to Gaylord Container Corporation, St. Louis, Mo., a corporation of Maryland

Application April 19, 1940, Serial No. 330,483

12 Claims. (Cl. 312—144)

This invention relates to display cabinets, particularly display cabinets of corrugated board or like material. It has for its principal object a simple and inexpensive durable lightweight display cabinet of pleasing appearance which can be shipped in knock-down condition and readily assembled and is strengthened and stiffened by easily insertable compartment shelves for the display of articles. The invention consists principally in the display cabinet and in the parts and combinations and arrangements of parts hereinafter described and claimed.

In the accompanying drawings, which form part of this specification and wherein like symbols refer to like parts wherever they occur—

Fig. 1 is a plan view of the body blank for a display cabinet embodying my invention,

Fig. 2 is a front elevation of the assembled display cabinet,

Fig. 3 is a top plan view of said cabinet,

Fig. 4 is an enlarged fragmentary vertical section on the line 4—4 in Fig. 2,

Fig. 5 is a part rear elevational and a part vertical sectional view of said cabinet,

Fig. 6 is an enlarged horizontal cross-section on the line 6—6 in Fig. 2,

Fig. 7 is an enlarged perspective view of one of the compartment shelves ready for insertion in the cabinet,

Fig. 8 is a perspective view of one end portion of the base member of the cabinet,

Fig. 9 is a front elevational view of a display cabinet of modified form,

Fig. 10 is a vertical section on the line 10—10 in Fig. 9; and

Fig. 11 is a horizontal section on the line 11—11 in Fig. 9.

The display cabinet shown in Figs. 1 to 8, inclusive, is made entirely of corrugated board, fiber board, or other lightweight bendable material and comprises spaced hollow rectangular uprights or columns A connected at the tops of their front walls by an integral head B, vertically spaced compartment shelves C snugly fitting within said columns opposite vertically spaced rectangular openings 1 in the front walls thereof, and a horizontal base strip D extending from column to column and having upwardly offset inverted channel-shapped end portions 2 that snugly fit within the lower ends of the respective columns.

As shown in Fig. 7, each of the compartment shelves C comprises vertically spaced top and bottom portions 3 and 4, respectively, connected along their rear edges only by a back wall 5. The compartment shelves snugly fit within the hollow columns opposite the openings 1 in the front walls thereof with their back walls 5 bearing against the rear walls of said columns and with their top and bottom portions 3 and 4 bearing edgewise against the front walls of said columns on opposite sides of said opening and the two other walls of said columns. At their forward edges, the top and bottom portions of the compartment shelves are provided opposite the openings 1 with double-back extensions 6 and 7, respectively, that extend through said opening in edgewise abutting relation to the vertical edges thereof and terminate outwardly beyond the front walls of said columns in the form of two-ply horizontal ledges. The extensions 6 of the top or ceiling portions of the compartment shelves are doubled over upon said portions and bear flatwise against the top edges of the openings 1, while the extensions 7 of the bottom or shelf portions of said compartment shelves are doubled back beneath said shelf portions and seat on the bottom edges of said openings. The compartment openings 1 in the front walls of the columns are provided along their vertical edges with tabs 8 that are bent inwardly preferably at right angles to the front walls of said column, and snugly fit between the top and bottom portions 3 and 4 of the compartment shelves.

Fig. 1 illustrates the blank E from which the hollow columns A and connecting head B are formed. This blank is provided at its middle portion with a T-shaped slit 9 and on opposite sides of said slit with a series of spaced I-shaped slits 10 that form the tabs 8 that are bent into said hollow columns to form the openings 1. The blank has side marginal flaps beyond the head portion thereof that are bent at right angles along score lines 11 and 12 to form the outer end walls of the hollow columns A and part of the rear walls thereof; and the portion of said blank between the stem of the T-slit 9 and the ends of the head thereof are bent at right angles along the score lines 13 and 14 to form the opposing walls of said columns and the remaining portions of the rear walls thereof, the two portions forming the rear walls of said columns being secured together in edgewise abutting relation preferably by strips 15 of adhesive paper.

The modified display cabinet illustrated in Figs. 8, 9 and 10, inclusive, comprises a single upright hollow column A' with a rounded head B' at the top of its front wall. In other respects,

the single column A' is the same as the columns A, having the openings 1 in its front walls and being provided opposite said openings with the snugly fitting compartment shelves C.

The hereinbefore described display cabinet has several important advantages. It is simple and inexpensive and can be quickly and easily assembled. In the assembly of the cabinet, the compartment shelves serve as forms around which the column forming flaps of the blank are bent. The compartment shelves snugly fit within the hollow columns and serve as cross braces to increase the strength and rigidity of said columns. The portions of the compartment shelves inside the columns prevent withdrawal of said compartment shelves through the openings through which access is had to the compartments in said columns; and the folded back front extensions of the bottom or shelf portions of the compartment shelves extend beyond the front walls of the columns to form strong and rigid projecting ledges with rounded edges of pleasing appearance. The lower or shelf portions of the compartment shelves are supported directly on the lower edges of the openings in the front walls of the columns and the back walls of said compartment shelves bear flatwise against the rear walls of said columns. The compartment shelves are further supported in the columns by the side flaps of the openings in the front walls thereof, these flaps fitting snugly between the top and bottom portions of the compartment shelves and serving to hold the lower portion down on the lower edges of the opening and the upper portions against the upper edges of said openings.

Obviously, numerous changes may be made without departing from the invention and I do not wish to be limited to the precise construction shown.

What I claim is:

1. A display cabinet of corrugated board or like material comprising a hollow column having at least one opening in the side thereof and a compartment member snugly fitting within said hollow column crosswise thereof, said compartment member comprising vertically spaced horizontally disposed top and bottom portions connected inside said column by a vertical wall, said top and bottom portions having doubled-back extensions that extend through said opening, seat against the respective upper and lower edges thereof and project outside of said column to form two-ply outstanding ledges along said edges of said opening.

2. A display cabinet of corrugated board or like material comprising a hollow column with a plurality of vertically spaced openings through one side thereof and members snugly fitting within said hollow column and having portions therein forming cross-braces adjacent to the upper edges of said openings and combined cross braces and display shelves adjacent to the lower edges of said openings, said portions extending through said openings and seating against the respective upper and lower edges thereof, said members having other portions that bear flatwise against the opposite side of said column.

3. A display cabinet of corrugated board or like material comprising a plurality of spaced hollow columns and a head spanning from column to column, each of said columns having at least one opening through the front portion thereof, and a shelf snugly fitting within said hollow column adjacent to the lower edge of said opening, said shelf having a portion extending into said opening and resting on the lower edge thereof, portions disposed in abutting relation to the inner face of said front portion of said column on opposite sides of said opening and a portion adapted to bear flatwise against the inner face of the rear portion of said column.

4. A display cabinet of corrugated board or like material comprising a plurality of spaced hollow columns and a head spanning from column to column, each of said columns having at least one opening through the front portion thereof, and a shelf snugly fitting within said hollow column adjacent to the lower edge of said opening, said shelf having a doubled-back extension that extends through said opening, seats on the lower edge thereof and projects outside of said column in the form of a two-ply ledge and a portion adapted to bear flatwise against the rear portion of said column.

5. A display cabinet of corrugated board or like material comprising a plurality of spaced hollow columns connected along the front of said cabinet by an integral head, each of said columns having a series of vertically spaced openings through the front thereof, and a series of vertically spaced members snugly fitting within each of said hollow columns and forming combined cross-brace and display shelves therein adjacent to the lower edges of the respective openings, said members having doubled-back extensions that extend through the respective openings and rest upon the lower edges thereof and form outstanding two-ply ledges along said lower edges.

6. A display cabinet of corrugated board or like material comprising a hollow column having at least one opening through one side thereof, and a compartment shelf snugly fitting within said hollow column opposite said opening, said compartment shelf comprising vertically spaced horizontally disposed top and bottom portions snugly fitting within said hollow column and connected along one edge by a back wall that bears against the opposite side of said column.

7. A display cabinet of corrugated board or like material comprising a hollow column having at least one opening through one side thereof, and a compartment shelf snugly fitting within said hollow column opposite said opening, said compartment shelf comprising vertically spaced horizontally disposed top and bottom portions snugly fitting within said hollow column and connected along one edge by a back wall that bears against the opposite side of said column, said top and bottom portions having doubled-back extensions that extend through said opening and are adapted to seat against the respective upper and lower edges thereof.

8. A display cabinet of corrugated board or like material comprising a plurality of spaced hollow flat-sided columns connected at their upper ends by a head portion, each of said columns having a series of vertically spaced openings through the front side thereof, and a series of vertically spaced compartment shelves snugly fitting within said hollow column opposite the respective openings therein, each of said compartment shelves comprising vertically spaced horizontally disposed top and bottom portions snugly fitting within said hollow column and connected along one edge by a rear wall that bears flatwise against the rear side of said column, said top and bottom portions having doubled-back extensions that extend through said openings and are adapted to seat against the respective upper and lower edges thereof.

9. A display cabinet of corrugated board or like material comprising a plurality of spaced hollow rectangular columns connected along their front walls by an integral head, each of said columns having a series of vertically spaced rectangular openings through the front wall thereof, and a series of vertically spaced compartment shelves snugly fitting within said hollow column opposite the respective openings therein, each of said compartment shelves comprising vertically spaced horizontally disposed top and bottom portions snugly fitting within said hollow column and connected along one edge by a back wall that bears flatwise against the rear wall of said column, said top and bottom portions extending through said openings and adapted to seat against the respective upper and lower edges thereof, said openings having tabs along the vertical edges thereof that are bent inwardly and fit snugly between said top and bottom portions.

10. A display cabinet of corrugated board or like material comprising a plurality of spaced hollow rectangular columns connected along their front walls by an integral head, each of said columns having a series of vertically spaced rectangular openings through the front wall thereof, a compartment shelf snugly fitting within said hollow column opposite each of said openings, said compartment shelf comprising vertically spaced horizontally disposed top and bottom portions snugly fitting within said hollow column and connected along one edge by a back wall that bears flatwise against the rear wall of said column, said top and bottom portions having doubled-back extensions that extend through said openings and are adapted to seat against the respective upper and lower edges thereof, said opening having tabs along the vertical edges thereof that are bent inwardly and fit snugly between said top and bottom portions of said compartment shelf, and a base strip extending from column to column and having portions shaped to snugly fit within the lower portions thereof.

11. A display cabinet of corrugated board or like material comprising a hollow column having at least one opening through one side thereof and a compartment shelf snugly fitting within said hollow column opposite said opening, said compartment shelf comprising vertically spaced horizontally disposed top and bottom portions connected by a back wall, said opening having tabs along the vertical edges thereof that are bent inwardly into said hollow column and fit snugly between said top and bottom portions of said compartment shelf.

12. A display cabinet of corrugated board or like material comprising a hollow column having at least one opening through one side thereof and a compartment shelf snugly fitting within said hollow column opposite said opening, said compartment shelf comprising vertically spaced horizontally disposed top and bottom portions snugly fitting within said hollow column and connected along one edge by a back wall that bears against the opposite side of said column, said top and bottom portions having doubled back extensions that extend through said opening and are adapted to seat against the respective upper and lower edges thereof, said openings having tabs along the vertical edges thereof that are bent inwardly and fit snugly between said top and bottom portions.

CLIFFORD D. FALLERT.