Feb. 14, 1939. J. O. BRYAN 2,147,086

DISPLAY PACKAGE AND STAND

Filed June 5, 1936

Fig. 1.

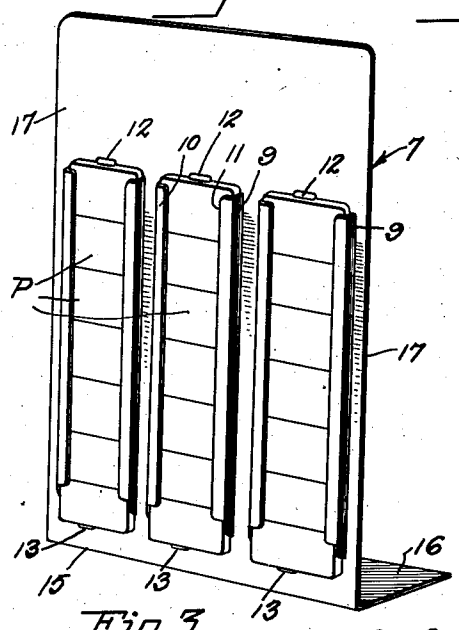


Fig. 2.

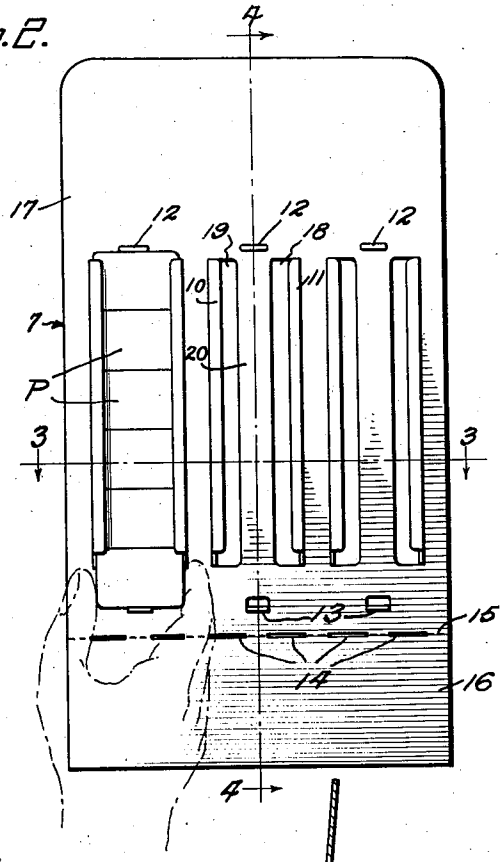


Fig. 3.

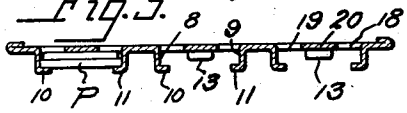


Fig. 5.

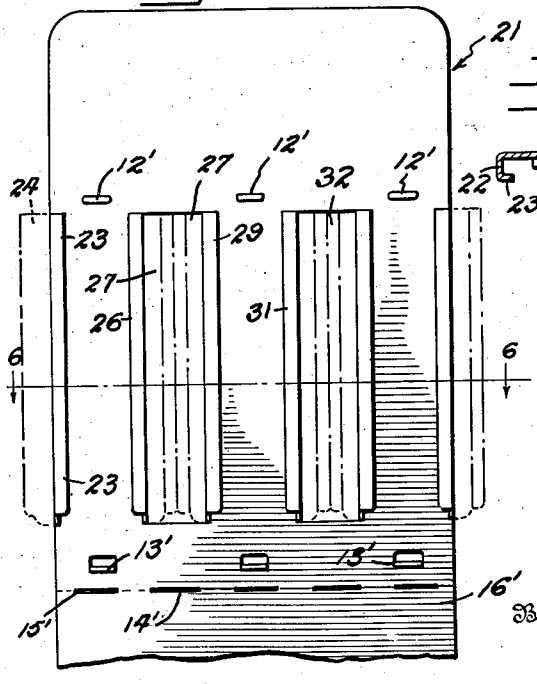


Fig. 6.

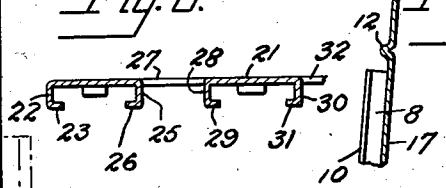
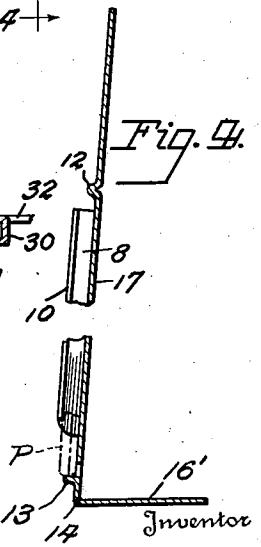


Fig. 4.



Inventor

J. O. Bryan

By Mason Fenwick & Lawrence

Attorneys

Patented Feb. 14, 1939

2,147,086

UNITED STATES PATENT OFFICE

2,147,086

DISPLAY PACKAGE AND STAND

Jim O. Bryan, Hopkinsville, Ky.

Application June 5, 1936, Serial No. 83,775

15 Claims. (Cl. 206—56)

This invention relates to display packages and stands adapted to hold assembled and to display for sale, merchandise put up in packages or containers of the same dimensions.

The main object of the invention is to provide a display rack formed from a single sheet of metal, a packaging device to receive and hold detachably a predetermined number of equally dimensioned articles, which may be containers or receptacles for various forms of merchandise.

Another object of the invention is to provide a rack of the character described which can be shipped and packed in flat form, and which can be shaped manually to stand self supported on any substantially horizontal support.

Other objects of the invention will become apparent as the detailed description thereof proceeds.

In the drawing:

Figure 1 is a perspective view of a preferred form of the completely assembled display package;

Figure 2 is an elevation of the display package shown in Figure 1, with part of the merchandise removed therefrom, and the main body of the display stand extended in condition for shipping;

Figure 3 is a horizontal section on the line 3—3 of Figure 2;

Figure 4 is a broken vertical section on the line 4—4 of Figure 2;

Figure 5 is an elevation of a modified form of the invention; and

Figure 6 is a fragmentary horizontal section taken on the line 6—6 of Figure 5.

As shown in Figures 1 to 4, inclusive, the invention comprises a sheet of metal designated generally by the reference numeral 7. The sheet 7 is stamped to form a pair of parallel flanges 8 and 9 substantially at right angles to sheet 7, and spaced apart at a distance equal to the lengths of the packages or containers P. The flanges 8 and 9 are bent toward each other to form retaining members 10 and 11 substantially parallel to the face of sheet 7 and at a distance therefrom substantially equal to or slightly greater than the thickness or depth of the packages P.

A stop 12 for the packages P is formed by indenting the sheet 7 near one end of and between the flanges 8 and 9 and members 10 and 11; and a second stop is formed as a shelf 13 stamped from sheet 7 between said flanges and at a distance from the other ends of the members 10 and 11 slightly less than the width of the packages P. The flanges 8 and 9 preferably project slightly below the ends of the members 10 and 11, but are spaced from the shelf 13 sufficiently to permit a person to grip the opposite ends of a package for the purpose of removing it from the flanges and retaining members.

Below the stops 13 the sheet 7 is provided with a series of slots 14 extending along a line 15 substantially at right angles to the flanges 8 and 9. These slots 14 weaken the sheet 7 along the line 15, and enable anyone to bend the lower portion 16 of the sheet 7 relative to the portion 17 thereof to form a seat for holding the portion 17 in any desired display, as shown in Figure 1.

Obviously, the seat 16 may be used to hold the display portion 17 with the packages in horizontal positions by resting the edges of the portions 16 and 17 on a horizontal surface.

In this form of the invention, each pair of the flanges 8 and 9, and members 10 and 11 are stamped from the sheet 7, so as to form a pair of slots 18 and 19 on opposite sides of a bridge 20 which serves to support the packages P in sliding contact with the retaining members 10 and 11. Obviously, the display stand may include any desired number of pairs of flanges and retaining members.

In the form shown in Figures 5 and 6, the display stand is formed from a blank 21, originally shaped as indicated by dotted lines in Figure 5. The flange 22 and retaining member 23 are bent from a part 24 of the blank projecting originally from one edge of sheet 21. The cooperating flange 25 and retaining member 26 are stamped out from the blank to form one half of the slot 27; the other half of the slot being formed by stamping out and bending the blank to form the flange 28 and retaining member 29. Similarly, the flange 30 and member 31 are stamped from said blank to form the slot 32. The method of stamping out the cooperating pairs of flanges and retaining members in this form of the invention is clearly shown in Figures 5 and 6 of the drawing.

In the second form of the invention, stops 12' are formed by indenting the sheet 21 and are located with respect to the cooperating pairs of flanges in the same position as are the stops 12 of the form shown in Figures 1 and 2. Stops 13' are also located below the lower ends of the cooperating flanges and retaining members in positions corresponding to the positions of the stops 13 in Figures 1 and 2. A series of slots 14' is formed in a line extending transversely of the sheet 21 to form a seat 16' for the display rack, in the same manner as illustrated for the preferred form of the invention in Figure 4.

It is intended that the display stand shall have

the guideways formed by the flanges and retaining members, filled with packages of the merchandise, prior to shipping the stands thus packed, to their destination. In this form, the seat parts of the sheets of metal shall be alined with the main body part, to be bent by the user at any desired angle to the main body part in order to position the filled display stand in any desired position.

It is to be understood that the invention is not to be considered as limited to the specific construction and arrangement described herein, since it is evident that many changes may be made without departing from the scope of the invention as defined by the claims appended hereto.

What I claim is:

1. A display package adapted to be supported in a substantially vertical display position and comprising: a flat plate having a pair of parallel flanges extending from one side thereof, retaining members extending toward each other from said flanges substantially parallel to said plate, said flanges projecting at one end beyond the ends of the retaining members, a row of articles slidable in the space between said flanges, all of said articles being of the same width, and each article being substantially equal in length to the distance between said flanges, and a stop extending from said side in position to support said row and located at a distance from the ends of said members less than the width of each of said articles, said flanges terminating at a distance from said stop sufficient to accommodate the fingers of a person in removing the article in contact with said stop from the package, and the stop projecting from said side a distance sufficient to permit the article to ride over its free end during the removal of said article.

2. A display package adapted to be supported in a substantially vertical display position and comprising: a flat plate having a pair of parallel flanges extending from one side thereof, retaining members extending toward each other from said flanges substantially parallel to said plate, said flanges projecting at one end beyond the ends of the retaining members, a row of articles slidable in the space between said flanges, all of said articles being of the same width, and each article being substantially equal in length to the distance between said flanges, and a stop extending from said side in position to support said row and located at a distance from the ends of said members less than the width of each of said articles, said flanges terminating at a distance from said stop sufficient to accommodate the fingers of a person in removing the article in contact with said stop from the package, the stop projecting from said side a distance sufficient to permit the article to ride over its free end during the removal of said article, and a second stop extending from said side in position to prevent the removal of said articles from the other ends of said retaining members.

3. A display stand adapted to be supported in a substantially vertical position and comprising: a flat plate having a pair of parallel flanges extending from one side thereof; retaining members extending toward each other from said flanges substantially parallel to said plate; said flanges projecting at one end beyond adjacent ends of the retaining members; and a stop spaced from said ends and extending from said side in the space between the projections of said flanges; said stand being adapted for the display of a row of similar articles all of the same width, and of a length substantially equal to the distance between said flanges and of a thickness equal to the spacing of said retaining members from said plate; the width of each article being slightly greater than the distance of the stop from the adjacent ends of said members to permit removal thereof from said stop and members.

4. A display stand adapted to be supported in a substantially vertical position and comprising: a flat plate having a pair of parallel flanges extending from one side thereof; retaining members extending toward each other from said flanges substantially parallel to said plates, said flanges projecting at one end beyond adjacent ends of the retaining members; and stops projecting from said side in the spaces between the projections of said flanges and oppositely disposed relative to the opposite ends of said members; said stand being adapted for the display of a row of similar articles, all of the same width, and of a length substantially equal to the distance between said flanges and of a thickness equal to the spacing of said retaining members from said plate; the width of each article being slightly greater than the distance of one of the stops from the adjacent ends of said members to permit removal thereof from said stop and members, said width being sufficient to prevent removal of any of said articles from contact with the second named stop and members in the direction of the second named stop from said members.

5. A display package adapted to be supported in a substantially vertical display position and comprising: a flat plate having a pair of parallel flanges extending from one side thereof, retaining members extending toward each other from said flanges substantially parallel to said plate, a row of articles slidable in the space between said flanges, all of said articles being of the same width, and each article being substantially equal in length to the distance between said flanges, and a stop extending from said side in position to support said row and located at a distance from the ends of said members less than the width of each of said articles, and the stop projecting from said side a distance sufficient to permit the article to ride over its free end during the removal of said article.

6. A display package adapted to be supported in a substantially vertical display position and comprising: a flat plate having a pair of parallel flanges extending from one side thereof, retaining members extending toward each other from said flanges substantially parallel to said plate, a row of articles slidable in the space between said flanges, all of said articles being of the same width, and each article being substantially equal in length to the distance between said flanges, and a stop extending from said side in position to support said row and located at a distance from the ends of said members less than the width of each of said articles, the stop projecting from said side a distance sufficient to permit the article to ride over its free end during the removal of said article, and a second stop extending from said side in position to prevent the removal of said articles from the other ends of said retaining members.

7. A display stand adapted to be supported in a substantially vertical position and comprising: a flat plate having a pair of parallel flanges extending from one side thereof; retaining members extending toward each other from said flanges substantially parallel to said plate; and

a stop spaced from said ends and extending from said side in the space between the projections of said flanges; said stand being adapted for the display of a row of similar articles all of the same width, and of a length substantially equal to the distance between said flanges and of a thickness equal to the spacing of said retaining members from said plate; said stop being located from said ends at a distance slightly less than the width of said articles and projecting from said side a distance sufficient to permit the article resting thereon to ride over its free end during the removal of the article from the stand.

8. A display stand adapted to be supported in a substantially vertical position and comprising: a flat plate having a pair of parallel flanges extending from one side thereof; retaining members extending toward each other from said flanges substantially parallel to said plates; and stops projecting from said side in the spaces between the projections of said flanges and oppositely disposed relative to the opposite ends of said members; said stand being adapted for the display of a row of similar articles, all of the same width, and of a length substantially equal to the distance between said flanges and of a thickness equal to the spacing of said retaining members from said plate; one of said stops being located from the adjacent ends of said members at a distance slightly less than the width of said articles and projecting from said side a distance sufficient to permit the article resting thereon to ride over its free end during the removal of the article from the stand, the other stop extending from said side in position to prevent removal of said article from the other ends of said retaining members.

9. A display stand comprising a sheet of metal having guide members stamped from one side of said sheet and spaced apart parallel to each other to retain slidably between them a plurality of articles of a length equal to the distance between said members, a stop extending from said side in position to prevent the removal of articles from one end of said members, a second stop extending from said side at a distance from the end of said members sufficient to permit the removal of an article supported thereby, said sheet being slotted transversely along a definite line to facilitate the manual folding of the sheet to form means for supporting a package at any desired display angle.

10. A package shipping container convertible to a package display stand and comprising: a plate made from a single piece of sheet material, a complemental pair of article guide and retaining members stamped out from the face of said plate, a row of articles slidable in the space defined by said plate and members, a shelf stamped out from said plate and located in a position to support said row of articles, said shelf being spaced from said guide and retaining members to accommodate the fingers of a person in removing the lowermost article of said row of articles, said plate having a lower portion foldable under the body of said plate to form a supporting base for the article holding part of the plate and thereby convert the shipping container into a display stand for said articles arranged at any desired angle to the vertical.

11. A package shipping container convertible to a package display stand and comprising: a plate made from a single piece of sheet material, a complemental pair of article guide and retaining members stamped out from the face of said plate, a row of articles slidable in the space defined by said plate and members, a shelf stamped out from said plate and located in a position to support said row of articles, said shelf being spaced from said guide and retaining members to accommodate the fingers of a person in removing the lowermost article of said row of articles, said plate being weakened along a horizontal line below said shelf and defining thereby a lower portion foldable along the weakened line under the body of said plate to form a supporting base for the article holding part of the plate and thereby convert the shipping container into a display stand for said articles arranged at any desired angle to the vertical.

12. A package shipping container convertible to a package display stand and comprising: a plate made from a single piece of sheet material, a plurality of complemental pairs of article guide and retaining members stamped out from the face of said plate, parallel rows of articles slidable in the spaces defined by said plate and pairs of members, shelves stamped out from said plate each located in a position to support one of said rows of articles, each shelf being spaced from its associated guide and retaining members to accommodate the fingers of a person in removing the lowermost article of a row of articles, said plate having a lower portion foldable under the body of said plate to form a supporting base for the article holding part of the plate and thereby convert the shipping container into a display stand for said articles arranged at any desired angle to the vertical.

13. A package shipping container convertible to a package display stand and comprising: a plate made from a single piece of sheet material, a complemental pair of angle shaped article guide and retaining members stamped out from the face of said plate, a row of articles slidable in the space defined by said plate and members, a shelf stamped out from said plate and located in a position to support said row of articles, said shelf being spaced from said guide and retaining members to accommodate the fingers of a person in removing the lowermost article of said row of articles, a stop located above said complemental members and also stamped out from said plate, said plate having a lower portion foldable under the body of said plate to form a supporting base for the article holding part of the plate and thereby convert the shipping container into a display stand for said articles arranged at any desired angle to the vertical.

14. A package shipping container convertible to a package display stand and comprising: a plate made from a single piece of sheet material, a complemental pair of angle shaped article guide and retaining members stamped out from the face of said plate, a row of articles slidable in the space defined by said plate and members, a shelf stamped out from said plate and located in a position to support said row of articles, said shelf being spaced from said guide and retaining members to accommodate the fingers of a person in removing the lowermost article of said row of articles, said plate being weakened along a horizontal line below said shelf and defining thereby a lower portion foldable along the weakened line under the body of said plate to form a supporting base for the article holding part of the plate and thereby convert the shipping container into a display stand for said articles arranged at any desired angle to the vertical.

15. A package shipping container convertible to a package display stand and comprising: a plate made from a single piece of sheet material, a complemental pair of angle shaped article guide and retaining members stamped out from the face of said plate, a row of articles slidable in the space defined by said plate and members, a shelf stamped out from said plate and located in a position to support said row of articles, said shelf being spaced from said guide and retaining members to accommodate the fingers of a person in removing the lowermost article of said row of articles, said plate having a lower portion foldable under the body of said plate to form a supporting base for the article holding part of the plate and thereby convert the shipping container into a display stand for said articles arranged at any desired angle to the vertical.

JIM O. BRYAN.