P. J. SUNDHEIM & J. J. FERRALL.

DISPLAY RACK.

APPLICATION FILED MAR. 2, 1918.

1,284,813. Patented Nov. 12, 1918.

Fig. 1.

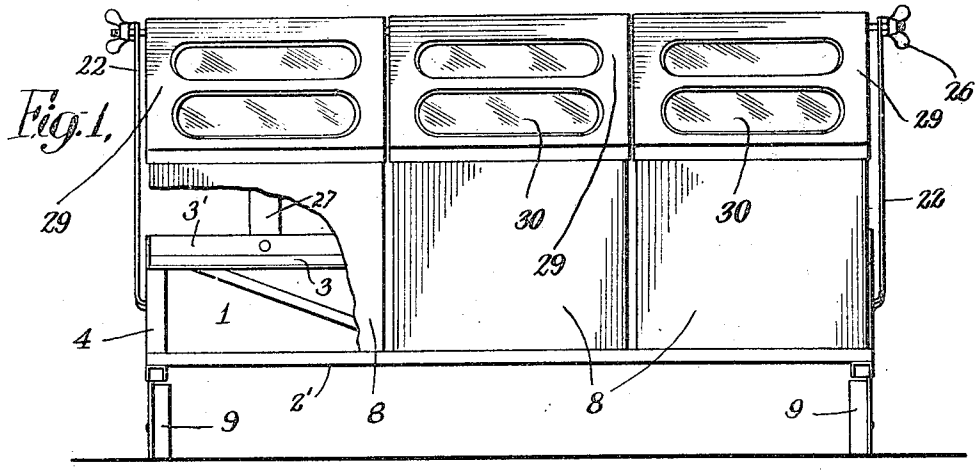


Fig. 2.

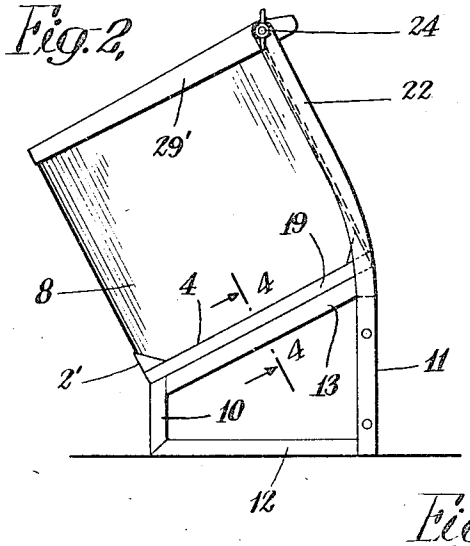


Fig. 4.

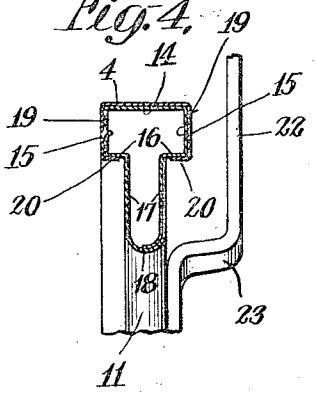
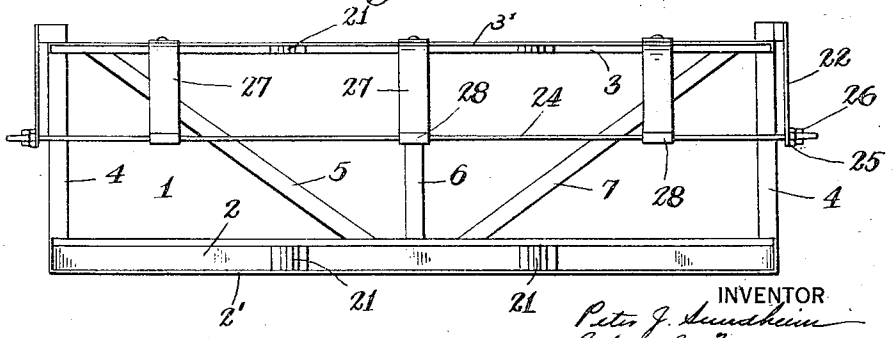


Fig. 3.



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UNITED STATES PATENT OFFICE.

PETER J. SUNDHEIM, OF EAST ORANGE, NEW JERSEY, AND JOHN J. FERRALL, OF VALHALLA, NEW YORK, ASSIGNORS TO NATIONAL BISCUIT COMPANY, OF NEW YORK, N. Y., A CORPORATION OF NEW JERSEY.

DISPLAY-RACK.

1,284,813. Specification of Letters Patent. Patented Nov. 12, 1918.

Application filed March 2, 1918. Serial No. 219,947.

To all whom it may concern:

Be it known that we, PETER J. SUNDHEIM, a citizen of the United States, residing at East Orange, in the county of Essex and State of New Jersey, and JOHN J. FERRALL, a citizen of the United States, residing at Valhalla, Westchester county, New York, have invented certain new and useful Improvements in Display-Racks, of which the following is a specification.

Our invention relates to racks adapted for the display of cartons or boxes adapted to contain biscuits and the like. Our object is to provide a small, light rack of pleasing appearance adapted to stand on a counter in a grocery store or the like. The rack comprises a skeleton frame member which is supported in an inclined position by a pair of end supports which are slidably and removably secured to the end portions of the frame. The frame member is provided with upwardly extending flanges at its front and rear edges between which the cartons to be displayed are mounted. The rack is adapted to be knocked down for purposes of packing and shipment, the end supports being separated from their operative position beneath the frame member and laid flat between the flanges of the frame member so as to make a flat package. A feature of our invention also consists in providing the end supports with upwardly extending brackets through which may be extended a pivot rod on which effective display covers for the cartons to be displayed may be pivotally mounted. Other objects of our invention consist in the provision of improved details of construction and combinations of parts all as will more fully appear in the following specification and appended claims.

In order that a clearer understanding of our invention may be had attention is directed to the accompanying drawings forming part of this application and illustrating a preferred embodiment of our invention. In the drawings Figure 1 represents a front elevation of a rack having three cartons displayed thereon, Fig. 2 is an end elevation of the same, Fig. 3 is a top plan view with the cartons and covers removed and Fig. 4 is an enlarged cross section taken on line 4—4 of Fig. 2.

Referring to the drawings the frame member 1 of the rack comprises front and rear members 2 and 3, end members 4, 4 and transverse stiffening members such as are illustrated at 5, 6 and 7 extending between front and rear members 2 and 3, members 5 and 7 preferably being inclined as shown. These members are preferably formed of light sheet-metal and the front and rear members 2 and 3 are provided with upwardly extending flanges 2′ and 3′ as shown, between which the front and rear edges of the cartons to be displayed may be located. The cartons are shown mounted in position on the rack at 8, 8, 8.

The end supports are referred to as a whole by the reference characters 9, 9. Each end support comprises front and rear vertical portions 10 and 11, horizontal bottom portion 12 and the upwardly and rearwardly inclined top portion 13. Portions 10, 12 and 11 of each end support are preferably formed by bending a strip of sheet-metal to the desired shape so that the rear vertical portion 11 will be sufficiently longer than the front vertical portion 10 to give the desired inclination to the frame 1. Portions 10, 12 and 11 of the end support are flanged as shown so that the base portion 12 will have a horizontal base on which it rests and an upwardly directed outside flange. Portion 10 will have front and outside surfaces and portion 11 rear and outside surfaces respectively. The top member 13 of each end support is preferably formed as is shown in Fig. 4 by bending a sheet of metal to form the top and side portions of a rectangle, as shown at 14, 15, the metal being bent again inwardly from the bottoms of the side portions 15 for some distance as is shown at 16. The metal is then again bent downwardly as shown at 17, 17 and the ends of the sheet are arched and secured together as is shown at 18. The arched flange 17, 18 is then soldered or otherwise secured to the inner surfaces of the outside flanges of the vertical portions 10, 11 of the end support so that the frame portion having rectangular sections 14, 15, 16 will extend at an upward and rearward inclination from a point just above the top of the front portion 10 to a point just above the top of the rear portion 11 of the end support.

The end members 4, 4 of the main frame 1 are bent as is shown in Fig. 4 to form slideways in which the top portions 14, 15, 16 of

the end supports may be slidably engaged. As is shown in Fig. 4 each end member 4 may be formed of a strip of sheet-metal the sides of which are bent downwardly as shown at 19, 19 and then again inwardly for a short distance as is shown at 20, 20. The end supports may be mounted in position by inserting the rear end of each slide 14, 15, 16 within the forward end of the slideway or track 4, 19, 20 and pushing the end support rearwardly to position, the rear end of each slideway or track being closed to form a stop. Small triangular lugs 21, 21 may be positioned on the bottom flanges of front and rear members 2 and 3 of the frame, by bending and soldering in position short strips of metal, to form locating stops for the different cartons. When the rack is to be knocked down or taken apart for shipment the end supports may simply be slipped out of their slideways in the end members 4 of the frame and laid flat on the horizontal flanges of the frame member 1 to form a flat package, the proportions of the end supports being suitable to permit such nesting of the parts.

The rack described is preferably also provided with pivoted covers of metal to cover the cartons to be displayed on the rack. This is particularly an advantage since cartons of inexpensive cardboard or similar material may be employed and thrown away when emptied, the covers being of sheet-metal or other desired material, provided with glass panels, and given a pleasing appearance. For this purpose the end supports may be provided with brackets 22, 22 which are secured to the outside flanges of the rear portions 11 of the end supports and extended upwardly and somewhat forwardly from the upper ends of members 11. Brackets 22 may be offset beyond the ends of the frame 1 as shown at 23. A pivot rod 24 is supported in openings at the upper ends of brackets 22, rod 24 being threaded at its ends and held in position by small clamping nuts and wing nuts 25 and 26 which are screwed on the rod outside brackets 22. Rod 24 may be additionally secured in position by means of strips 27, 27 which may be pivotally mounted on the rear flange of member 3 of the main frame by means of small rivets or the like. The forward ends of strips 27, 27 are bent to form sleeves 28, 28 through which rod 24 may be extended. When the device is to be knocked down for shipping strips 27 may be swung about their pivotal supports into parallel positions behind the rear flange of member 3.

The covers 29, 29, 29 are provided with side flanges 29′ having openings adjacent their rear ends through which rod 24 is extended. The covers are adapted to fit over the tops of the cartons displayed on the rack and may be swung rearwardly when access to a carton is desired. These covers may be provided with glass panels 30. The covers may, of course, be wrapped together in a separate package when the device is taken apart for shipping.

What we claim is:—

1. In a rack, the combination of a flanged frame on which cartons may be displayed, and supports adapted to hold said frame in an inclined position with its rear edge raised, said supports having top surfaces inclined upwardly from front to rear, said frame having slideways formed on the lower surface thereof, in which said top surfaces of the supports slidably and removably engage, substantially as set forth.

2. In a rack, the combination of a flanged frame on which cartons may be displayed, and supports adapted to hold said frame in an inclined position with its rear edge raised, said supports and frame having coacting slides and slideways thereon, said supports being adapted to be disengaged from said frame by a sliding movement, and laid flat on said frame, between the flanges thereof for shipping, substantially as set forth.

3. In a rack, the combination with a pressed frame comprising a flanged front member and a rear member, and transverse end members bent downwardly and inwardly at their sides to form tracks, of end supports, comprising bottom, front, rear and inclined top portions, said rear portions being higher than the front portions, and said inclined top portions being suitably bent to seat and slide within the tracks formed by the end members of said frame, substantially as set forth.

4. In a rack, the combination of an inclined frame on which cartons may be displayed, end supports adapted to hold said frame in inclined position, with its rear edge raised, brackets extending upwardly and forwardly from the rear portions of said supports, a rod carried by said brackets, and covers for cartons, pivotally mounted on said rod.

This specification signed and witnessed this 18th day of February, 1918.

PETER J. SUNDHEIM.
JOHN J. FERRALL.

Witnesses:
FRANK E. COYLE,
ERNEST F. HUBERTH.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents. Washington, D. C."