Feb. 20, 1934. H. H. FANTE 1,947,933

RACK

Filed March 20, 1933

Fig. 1.

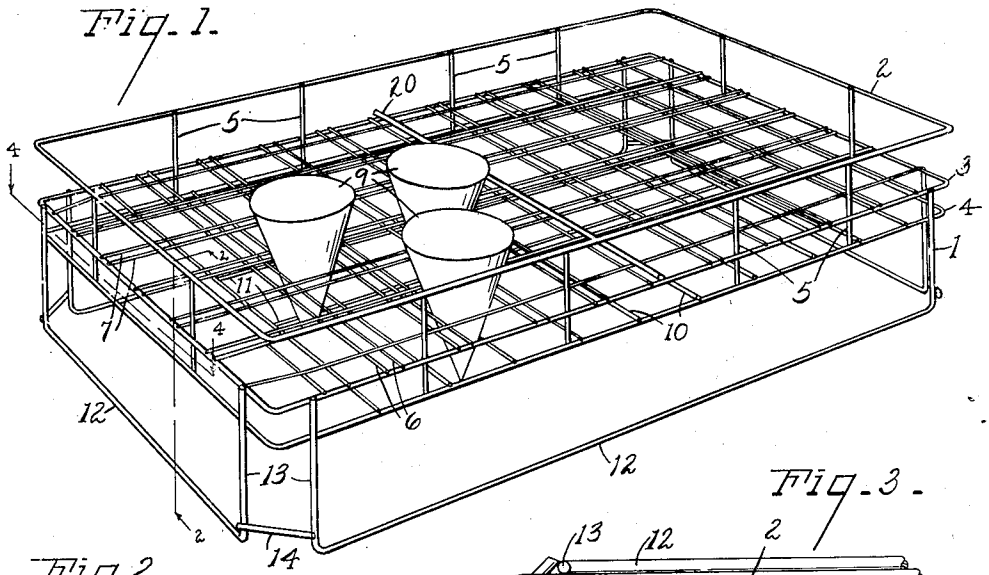


Fig. 2.

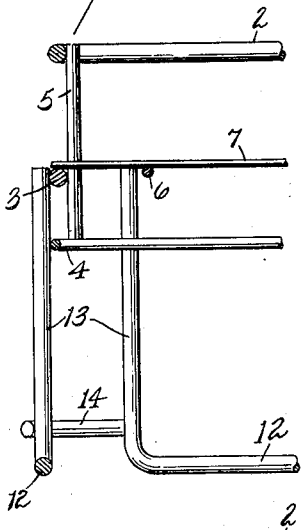
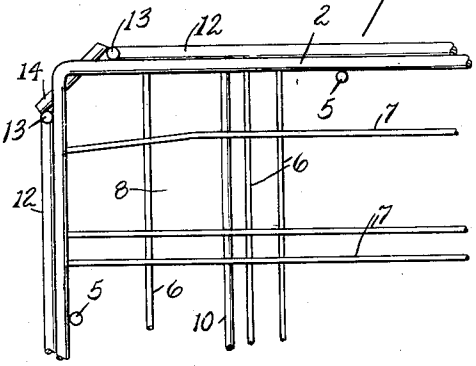


Fig. 3.



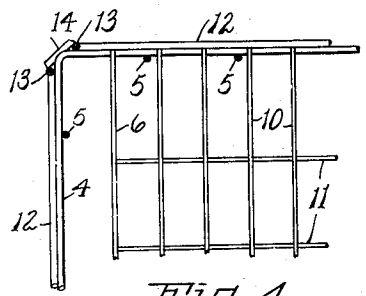


Fig. 4.

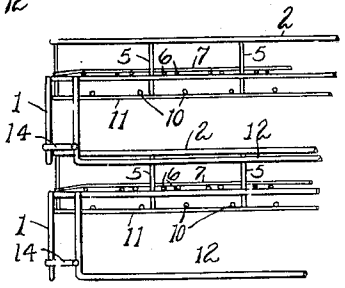


Fig. 5.

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RACK

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4 Claims. (Cl. 211—181)

The main objects of this invention are:

First, to provide a rack of heavy wire or light rod of improved construction for handling ice cream molds or containers and the like.

Second, to provide a rack of this character having improved means whereby a plurality thereof may be readily stacked in vertical alignment.

Third, to provide a rack of this character having no downwardly or upwardly projecting portions which would interfere with the sliding of the racks on one another as in stacking.

Fourth, to provide a rack of this character having improved means for supporting conical molds or containers such as those used in handling ice cream molds or containers and the like.

Fifth, to provide a rack having the above desirable features and characteristics which is simple and economical in its parts, light in weight, yet strong and rugged and one which is efficient and effective in operation.

Objects relating to details and economies of my invention will appear from the description to follow. The invention is defined and pointed out in the claims.

A structure which is a preferred embodiment of my invention is illustrated in the accompanying drawing, in which:

Fig. 1 is a perspective view of a rack embodying the features of my invention.

Fig. 2 is an enlarged fragmentary vertical section on a line corresponding to line 2—2 of Fig. 1.

Fig. 3 is an enlarged fragmentary top plan.

Fig. 4 is a reduced horizontal section on a line corresponding to line 4—4 of Fig. 1.

Fig. 5 is a reduced fragmentary view in side elevation of a pair of the racks arranged in stacked relation.

Referring to the embodiment of my invention illustrated by the drawing, numeral 1 in general indicates the rack which is provided with a top frame 2, an intermediate frame 3 and a lower frame 4. The frames are substantially rectangular in shape and arranged in spaced relation to each other. The frames are held in assembled relation by means of the spaced vertical uprights 5 which are welded to the inner sides of the frames. No uprights are provided near the corners of the frames.

Spaced pairs 6 and 7 of longitudinal and transverse members are arranged on the intermediate frame 3 to form spaced longitudinal and transverse rows of square openings 8, the members 6 and 7 being welded at their ends to the intermediate frame. The pairs of longitudinal and transverse members 6 and 7 are spaced in this manner to provide room for the upper portions of the conical ice cream molds or containers 9 which are disposed in the openings 8 in diagonal rows, every other opening in the transverse and longitudinal rods being used. The frame 3 is provided with a central reinforcing rod 20.

Spaced lower transverse members 10 are arranged on the lower frame 4 and welded at their ends thereto, there being a lower transverse member 10 below and offset from the center of each transverse row of openings 8. The lower transverse members 10 are reinforced by means of spaced longitudinal members 11 which are welded thereto. The transverse lower members 10 are adapted to support the molds or containers 9 in substantially normal position relative to the openings 8 when the rack is inclined from the horizontal as in stacking or handling the racks.

Substantially U-shaped supporting members 12 are arranged with their uprights 13 spaced from the corners of the frame and welded to the intermediate and lower frames 3 and 4. The diagonal corner pieces 14 are disposed in a horizontal plane spaced from the bottom of the supporting members 12 and are welded to the corner uprights 13. The corner pieces provide supports engageable with the corners of the top frame of a similar rack on which the rack is stacked, the supporting members of the upper rack receiving and overlapping the top frame of the lower rack as illustrated by Fig. 5.

With the parts thus arranged, the racks may be readily stacked by sliding them into position on the supporting surface or on the next lower rack, the arrangement of parts being such that all of the projecting members which would interfere with such sliding movement are eliminated. The rack is light in weight, yet strong and rugged and provides for ample circulation of the refrigerating medium around the containers or molds even when a plurality of the racks are arranged in stacked relation. While the above described embodiment of my invention is specifically designed for use in handling ice cream molds or containers, it will be readily appreciated by those skilled in the art that the rack is capable of use in other relations.

I have illustrated and described my improvements in an embodiment which I have found very practical. I have not attempted to illus-

trate or describe other embodiments or adaptations, as it is believed this disclosure will enable those skilled in the art to embody or adapt my improvements as may be desired.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent, is:

1. A rack comprising in combination top, intermediate and lower frames, uprights secured to said frames and connecting the same in assembled relation, longitudinal and transverse members secured at their ends to said intermediate frame and forming spaced longitudinal and transverse rows of openings, spaced lower transverse members secured at their ends to said lower frame, there being a lower transverse member below and offset from the center of each transverse row of openings, substantially U-shaped supporting members having the uprights thereof spaced from the corners of the frames and secured to said intermediate and lower frames and diagonal corner pieces arranged in a plane spaced from the bottom of said supporting members and secured to the corner uprights thereof whereby to provide supports engageable with the corners of the top frame of a similar rack on which the rack is stacked, the supporting members of the upper rack overlapping the top frame of the lower rack.

2. A rack comprising in combination top, intermediate and lower frames, uprights secured to said frames and connecting the same in assembled relation, longitudinal and transverse members secured at their ends to said intermediate frame and forming spaced longitudinal and transverse rows of openings, substantially U-shaped supporting members having the uprights thereof spaced from the corners of the frames and secured to said intermediate and lower frames, and diagonal corner pieces arranged in a plane spaced from the bottom of said supporting members and secured to the corner uprights thereof whereby to provide supports engageable with the corners of the top frame of a similar rack on which the rack is stacked, the supporting members of the upper rack overlapping the top frame of the lower rack.

3. A wire rack comprising in combination top, intermediate and lower frames, means connecting the same in assembled relation, spaced pairs of longitudinal and transverse members welded at their ends to said intermediate frame and forming spaced longitudinal and transverse rows of square openings, spaced lower transverse members welded at their ends to said lower frame, there being a lower transverse member below and offset from the center of each transverse row of openings, substantially U-shaped supporting members having the uprights thereof spaced from the corners of the frames and welded to said intermediate and lower frames, and diagonal corner pieces arranged in a plane spaced from the bottom of said supporting members and welded to the corner uprights thereof whereby to provide supports engageable with the corners of the top frame of a similar rack on which the rack is stacked, the supporting members of the upper rack receiving the top frame of the lower rack.

4. A wire rack comprising in combination top, intermediate and lower frames, means connecting the same in assembled relation, substantially U-shaped supporting members having the uprights thereof spaced from the corners of the frames and welded to said intermediate and lower frames, and diagonal corner pieces arranged in a plane spaced from the bottom of said supporting members and welded to the corner uprights thereof whereby to provide supports engageable with the corners of the top frame of a similar rack on which the rack is stacked.

HARRY H. FANTE.