C. WAGNER.

DISPLAY RACK.

APPLICATION FILED JULY 22, 1918.

1,373,781.

Patented Apr. 5, 1921.

Fig. 1

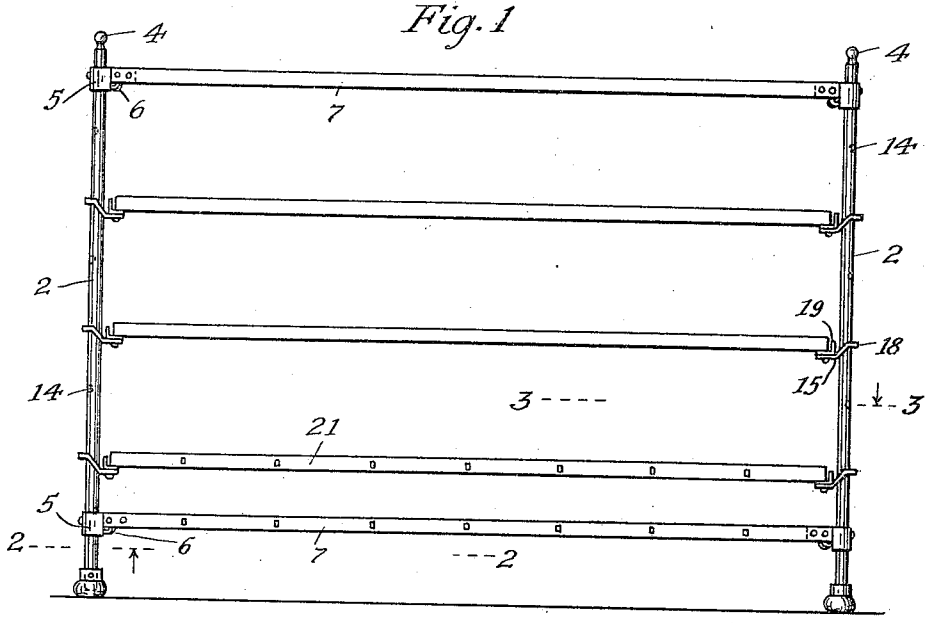


Fig. 2

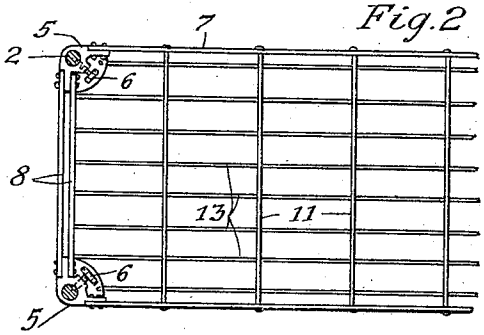


Fig. 3

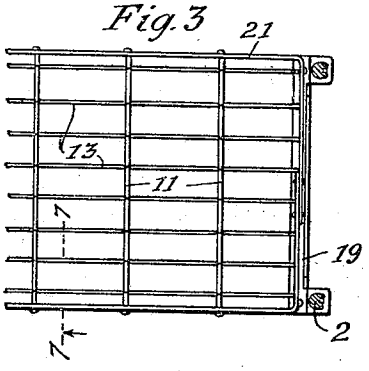


Fig. 4

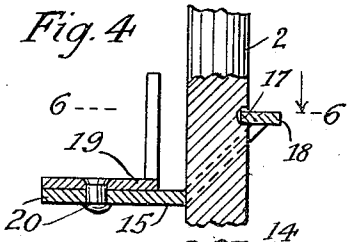


Fig. 5.

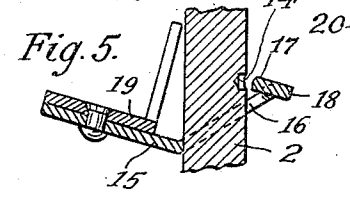


Fig. 6

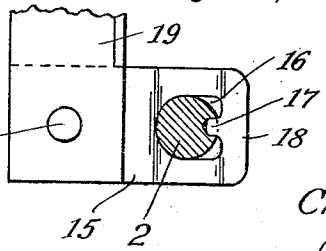
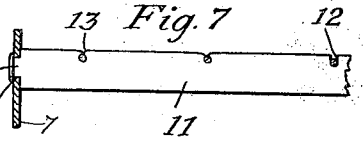


Fig. 7



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UNITED STATES PATENT OFFICE.

CHARLES WAGNER, OF MINNEAPOLIS, MINNESOTA.

DISPLAY-RACK.

1,373,781. Specification of Letters Patent. Patented Apr. 5, 1921.

Application filed July 22, 1918. Serial No. 246,142.

To all whom it may concern:

Be it known that I, CHARLES WAGNER, a citizen of the United States, resident of Minneapolis, county of Hennepin, State of Minnesota, have invented certain new and useful Improvements in Display-Racks, of which the following is a specification.

The object of my invention is to provide a rack adapted for displaying articles of merchandise and of such construction that the shelves can be conveniently removed or adjusted vertically to adapt them for articles of different size and shape.

A further object is to provide a rack of knock-down construction which can be taken apart for convenience in shipping and conveniently reassembled at the point where it is to be used.

Other objects of the invention will appear from the following detailed description.

The invention consists generally in various constructions and combinations, all as hereinafter described and particularly pointed out in the claims.

In the accompanying drawings forming part of this specification,

Figure 1 is a side elevation of a display rack embodying my invention,

Fig. 2 is a horizontal sectional view of the same, substantially on the line 2—2 of Fig. 1,

Fig. 3 is a detail view, showing the construction of one of the racks, on the line 3—3 of Fig. 1,

Fig. 4 is a detail sectional view, showing the manner of supporting the racks on the upright posts or standards,

Fig. 5 is a similar view, showing the rack support tilted for adjustment up or down on the post,

Fig. 6 is a sectional view on the line 6—6 of Fig. 1,

Fig. 7 is a sectional view on the line 7—7 of Fig. 3.

In the drawing, 2 represents the upright posts or standards, made preferably of suitable weight of pipe or tubing, having suitable feet and ornamental caps 4 at the top. Each of these posts is provided with castings 5 slidable thereon and normally secured by screws 6 which are tapped into the casting and have their inner ends in engagement with the posts. Side rails 7 and end rails 8 are secured to these castings and form therewith a rectangular frame at the top and bottom of the posts and thereby the posts will be rigidly held in upright parallel relation. There are preferably two of the rails 8 at the ends of the frames.

The side rails 7 have slots 9 therein to receive tongues 10 formed in the ends of cross bars 11 which are provided at intervals transversely of the frame and these bars have notches 12 in their upper edges to receive wires 13 inserted therein and having their ends fastened in the inner rails 8. After the insertion of the wires in the notches, the edges of the bars are forced inwardly by a chisel or other suitable tool so that the wires will be locked securely in the notches. The bars 11 are preferably secured in the side rails by upsetting or forming the head on the ends of the tongues 10. A very substantial rack will thereby be formed, although composed of comparatively light material.

I prefer to provide one of these frames at the top and one at the bottom of the standards, securing them by set screws as described, so that the standards or posts will be rigidly held and the rack adapted for supporting a heavy load of metalware or other articles which the user of the rack may wish to display.

The standards are provided at intervals with notches 14 and angle plates 15 have holes 16 therein to receive the post 2 and are provided with lugs 17 to enter the notches when the plates are in the position shown in Fig. 4 for supporting the plates in such position until the lugs are disengaged. The part 18 of the angle plate is bent upwardly at an angle to the main portion, the angle being such that when the leg is inserted into a notch in the post and the plate allowed to drop down, it will assume a horizontal position and the edge of the opening in angle plate 18 will bear on the post below the notch and thereby the plate 15 will be supported to sustain the load which may be placed thereon. The opposite angle plates are connected across the rack by angle bars 19 secured to the plates by suitable means, such as rivets 20, and upon these angle bars removable display racks 21 are placed, made up of side rails and intermediate bars and cross wires corresponding to those described with reference to the frame at the top and bottom of the rack. These removable racks, in addition to being slidable horizontally into the space between the posts or withdrawn therefrom, are also capable of vertical ad-

justment with the plates 15, so that the space between them may be increased or decreased, as desired, according to the height of the articles to be displayed.

There may, of course, be any desired number of the racks and the height of the posts and the length and width of the racks may be varied according to the space where it is to be used, and the articles to be displayed.

I claim as my invention:

1. A display rack comprising upright posts having means for holding them in parallel relation and provided with notches at intervals therein, plates having angular portions provided with openings to receive said posts and lugs formed on one edge of said openings to enter said notches, the opposite edges of said openings bearing on the opposite sides of the posts to support said plates in a horizontal position, cross bars secured to said plates and spaced from said posts to allow said plates to be tilted sufficiently to disengage their lugs from the notches in said posts, and display racks seated upon said cross bars.

2. A display rack having upright posts and supports mounted thereon, a rack shelf consisting of side and end rails, said side rails having slots therein and cross bars having tongues formed on the ends thereof to enter said slots and be secured therein, the upper edges of said bars having notches therein and longitudinal wires secured to said end rails and fitting at their intermediate points in said notches.

In witness whereof, I have hereunto set my hand this 15th day of July, 1918.

CHARLES WAGNER.