

J. WOLKERSTORFER.
 DISPLAY RACK.
 APPLICATION FILED SEPT. 7, 1909.

955,734.

Patented Apr. 19, 1910.

2 SHEETS—SHEET 1.

Fig. 1.

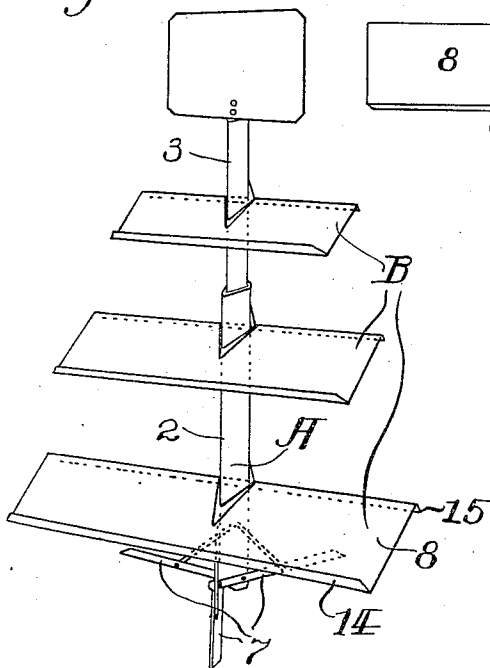


Fig. 3.

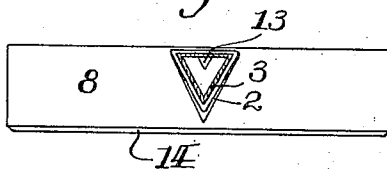


Fig. 2.

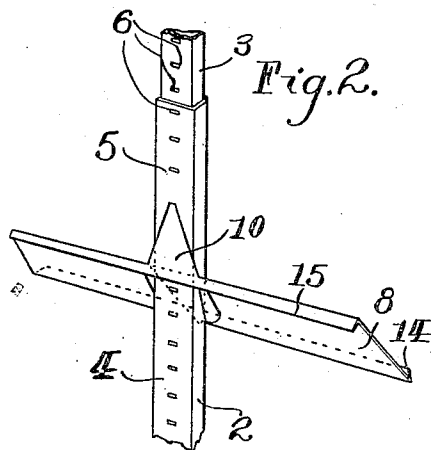
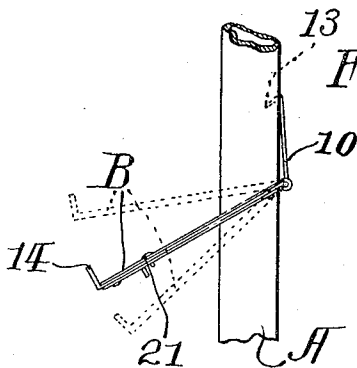


Fig. 4.



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W. K. Kieck
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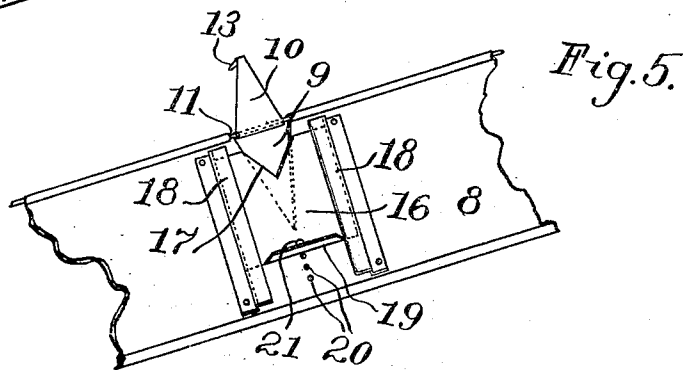
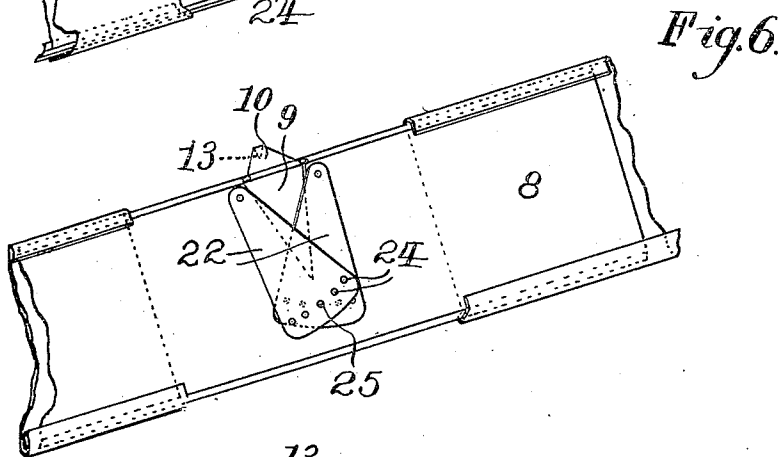
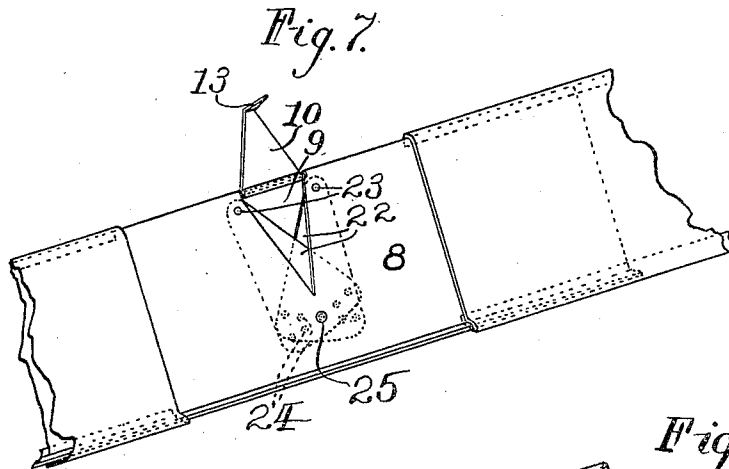
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2 SHEETS—SHEET 2.



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UNITED STATES PATENT OFFICE.

JOSEPH WOLKERSTORFER, OF ST. PAUL, MINNESOTA.

DISPLAY-RACK.

955,734.

Specification of Letters Patent.

Patented Apr. 19, 1910.

Original application filed April 26, 1909, Serial No. 492,168. Divided and this application filed September 7, 1909. Serial No. 516,434.

To all whom it may concern:

Be it known that I, JOSEPH WOLKERSTORFER, a citizen of the United States, residing at St. Paul, in the county of Ramsey and State of Minnesota, have invented a new and useful Improvement in Display-Racks, of which the following is a specification.

My invention relates to improvements in display racks and this application is a division of the subject matter set forth in my application Serial Number 492,168 filed on April 26, 1909.

This invention has for its object to produce a rack which may be shipped in knocked down condition and readily and easily erected for the display of goods.

Among the objects of my invention is to supply a rack in which as much space as possible may be left on the shelves for the display of goods and in which the shelves and standard can be held firmly and rigidly in position to support a heavy weight.

This invention obviates the use of nuts and bolts for tightening the parts and holding them in set position and the standard employed may be adjusted in height and the shelves attached thereto at any elevation desired.

In the accompanying drawings forming part of this specification Figure 1 is a perspective view of my improved rack; Fig. 2 is a perspective view looking toward the back of a detail of the standard one of the shelves being shown in place thereon; Fig. 3 is a plan view looking down upon that portion of the rack illustrated in Fig. 2 the standard being shown in cross-section; Fig. 4 is a side view of a detail of the standard one of the shelves being mounted thereon and its hanger hinged thereto; Fig. 5 is a view looking up at a detail of one of the shelves the hanger being hinged as illustrated in Fig. 5; Fig. 6 is another view looking up at a detail of a shelf showing a modified construction of the device employed for modifying the size of the opening through the shelf and Fig. 7 is a view looking down upon the detail illustrated in Fig. 6.

In the drawings A represents the standard and B shelves any number of which as desired may be mounted upon the said standard. These shelves are superimposed upon the standard in substantially horizontal position and as illustrated decline forwardly.

The shelves are all similar in construction and in the following description the ordinals will be applicable to all of the shelves alike.

The standard A is a triangular shell in cross-section as illustrated in Fig. 3 and is made in two parts 2 and 3 the upper part 3 telescoping into the lower part 2 thus making the standard adjustable in height this feature of the invention not forming part of the improvement covered by this application. The backs 4 and 5 of the parts 2 and 3 of the standard are provided with a series of perforations 6 which are vertically and equally spaced apart, the perforations in the parts 4 and 5 being adapted to coincide for the purposes to be hereinafter described. The lower end of the section 2 of the standard is provided with three arms 7 which are adapted to support the standard in vertical position.

Each shelf or tray is in the form of a single long plate 8 although it may be made sectional in form as illustrated in Figs. 6 and 7 or otherwise modified within the scope of my invention. From this plate is stamped or otherwise cut a triangular piece 10 forming a hanger and leaving an opening 9 through which the standard is adapted to pass freely, the angle of the apex of the opening being less than the angle of the standard meshing into said opening. When desired the hanger 10 may be mounted freely upon a pintle 11 (Fig. 5) which is carried by the shelf so that the hanger swings. The upper end of the hanger is offset to form a hook or detent 13 which is adapted to fasten in the perforations or indents 6 in the standard thus hanging the shelf upon the standard. When the perforations in the sections 4 and 5 coincide, said hook passing through them locks them in adjusted vertical position. The lower edge of the tray is bent up to form a ledge 14 thus serving to prevent the goods which are placed upon the tray from sliding off. The upper edge of the tray is bent down to form a flange 15. The ledge 14 and flange 15 increase the rigidity of the shelf longitudinally.

For the purpose of modifying the size of the opening 9 and supporting the shelf at various angles is provided a slide 16 which is notched at 17 to fit over the forward an-

gle of the standard. This slide is movable in a pair of parallel guides 18 which are mounted upon the shelf so that the slide can be moved in and out across the opening 9 to vary its size. The outer end of the slide is formed with a flange 19 by which the slide can be manipulated. A series of perforations 20 are provided in the shelf and a pin 21 is passed through the shelf and engaged in one of said perforations to hold the slide in adjusted position. Other means may be provided for locking the shelf when desired.

To vary the angle at which the shelf is supported the slide 16 is moved into proper adjustment and the pin 21 engaged through one of said perforations with said shelf. The edge of the notch 17 impinges against the standard to support the shelf. The construction by which the opening 9 is decreased in size to cause the shelf to be pitched at various angles can be modified, another construction being illustrated in Figs. 6 and 7 in which a pair of overlapping plates 22 are pivoted at 23 on opposite sides of the opening 9 and adapted to swing across the opening to decrease its size. The outer ends of the plates are formed with series of perforations 24 through which a pin 25 passing through the shelf is adapted to pass to lock the slides in any set position desired.

In use the parts are assembled as illustrated in Fig. 1 and the goods are placed upon the shelves where they are prominently displayed.

In accordance with the patent statutes I have described the principles of operation of my invention together with the apparatus which I now consider to represent the best embodiment thereof but I desire to have it understood that the construction shown is only illustrative and that the invention can be carried out by other means and applied to uses other than those above set forth within the scope of the following claims.

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

1. A display rack, comprising, a standard having a vertical series of indents, a lateral shelf declining forwardly having an opening through which said standard loosely passes and a hanger in the form of a movable plate near the upper edge of said shelf having an offset adapted to engage one of

the indents in said standard for the purposes specified.

2. A display rack, comprising, a standard having a vertical series of indents and a lateral shelf declining forwardly having an opening through which said standard passes, a hanger hinged to the upper end of said tray and having an offset adapted to engage one of said indents to vertically support said shelf and means for modifying the size of the opening in said shelf, said means comprising an element upon the tray adapted to impinge against the side of said standard to hold said shelf at a forwardly declining variable angle.

3. A display rack, comprising, a standard having a vertical series of indents, a lateral shelf declining forwardly having an opening through which said standard passes freely, a hanger secured to the upper portion of said tray and having a lateral detent adapted to engage one of said indents to vertically support said shelf and means for modifying the inclination of said shelf.

4. A display rack, comprising, a standard, a lateral shelf having an opening through which said standard passes, means for supporting said shelf on said standard and means for modifying the size of said opening in said shelf to vary the angle of inclination at which said shelf is supported.

5. A display rack, comprising, a standard, a lateral shelf having an opening through which said standard passes freely, means for supporting said shelf on said standard and a slide carried upon said shelf and variably supported to modify the size of said opening and vary the inclination at which said shelf is supported.

6. A display rack, comprising, a standard, a lateral shelf having an opening through which said standard passes freely, means near one edge of said shelf for supporting said shelf upon said standard, means for supporting said shelf, and means variably supported upon said shelf to modify the size of said opening, impinge against said standard, and hold the shelf at an angle to the standard which is variable.

In testimony whereof, I have signed my name to this specification, in the presence of two subscribing witnesses.

JOSEPH WOLKERSTORFER.

Witnesses:

JULE DONOVAN,
F. G. BRADBURY.