

Aug. 25, 1931.

R. C. BURNLEY

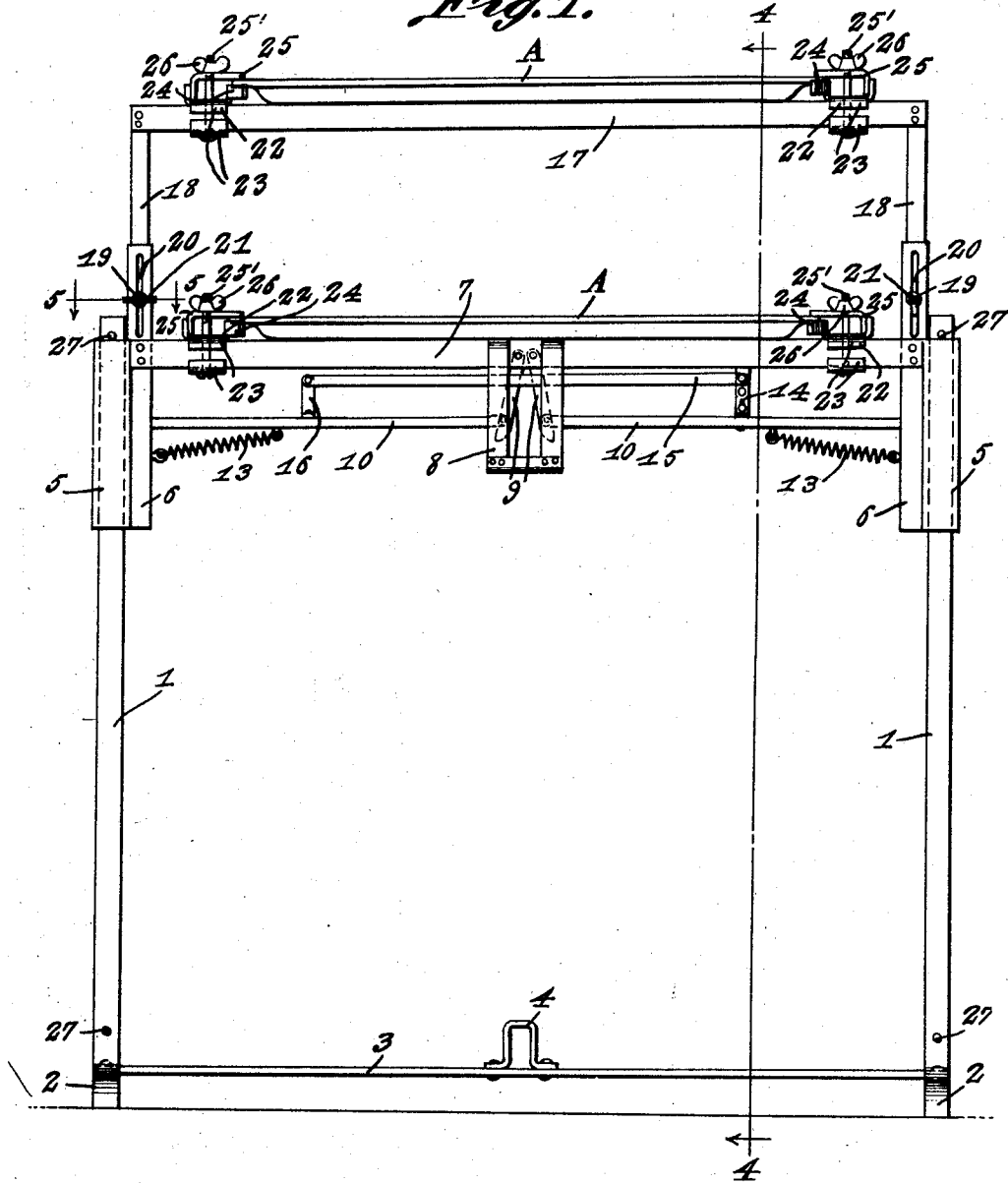
1,820,433

TRAY RACK

Filed May 23, 1930

3 Sheets-Sheet 1

Fig. 1.



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3 Sheets-Sheet 2

Fig. 2.

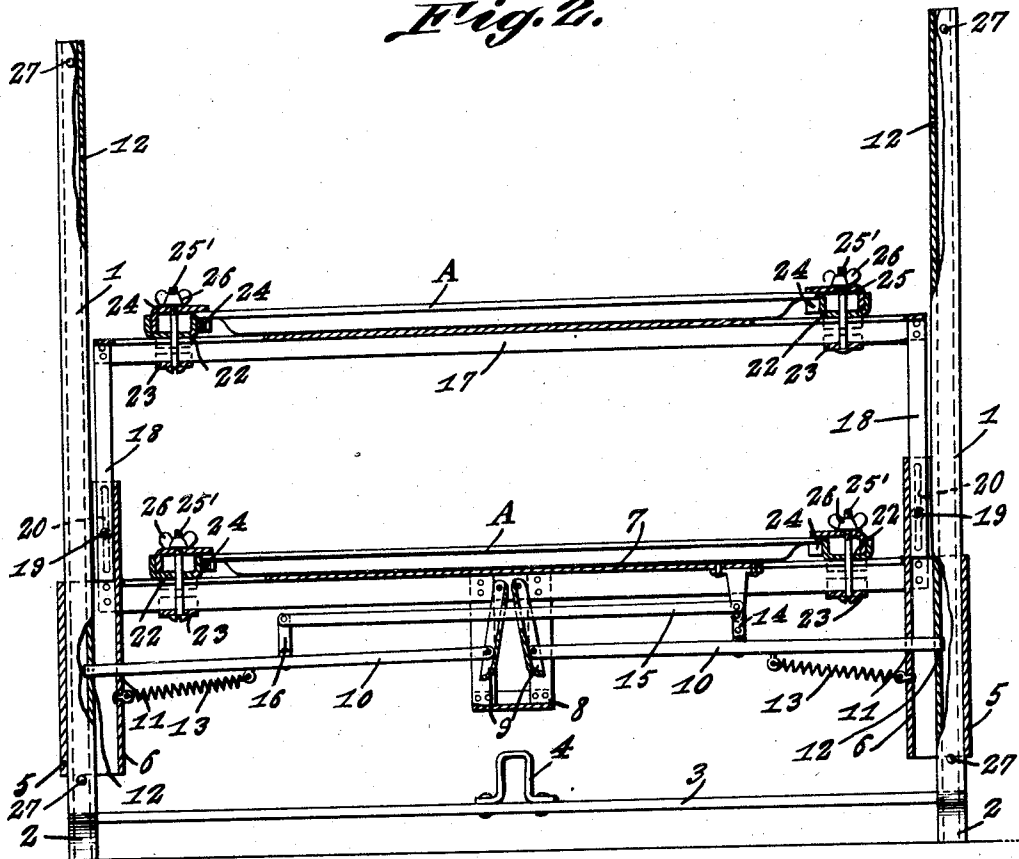
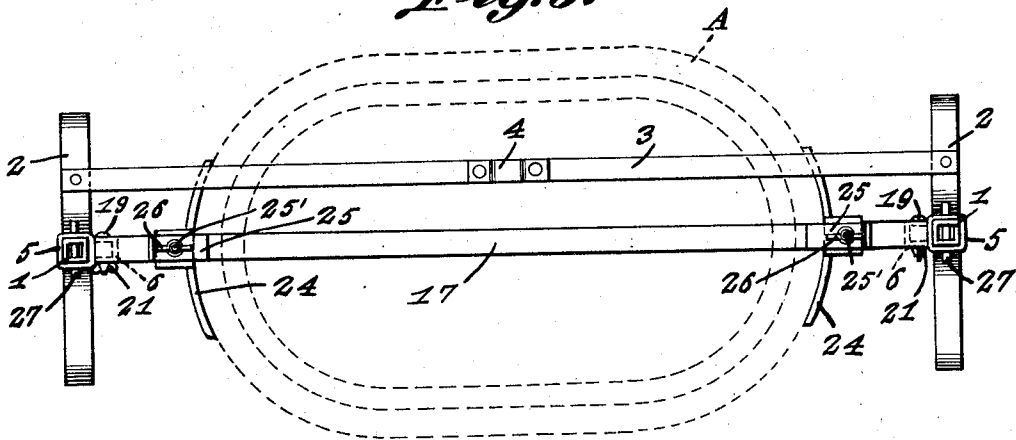


Fig. 3.



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3 Sheets-Sheet 3

Fig. 4.

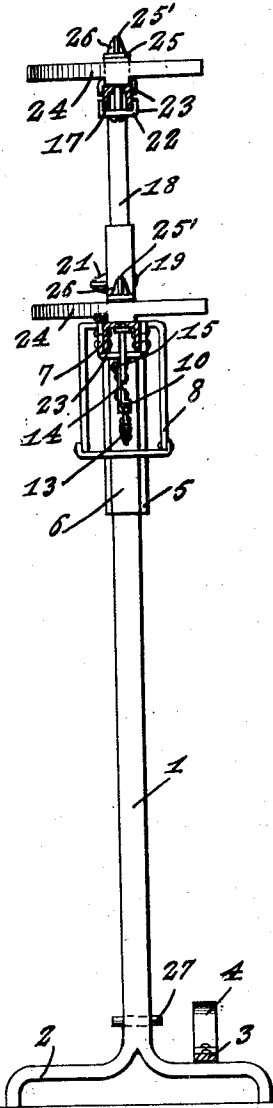


Fig. 5.

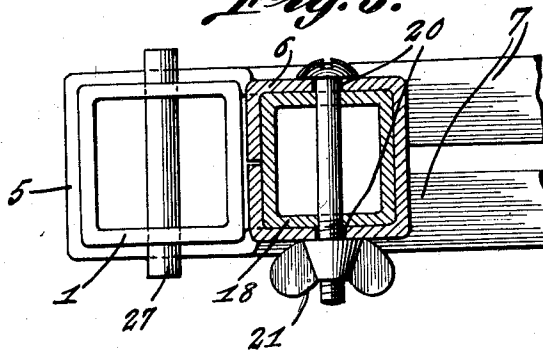
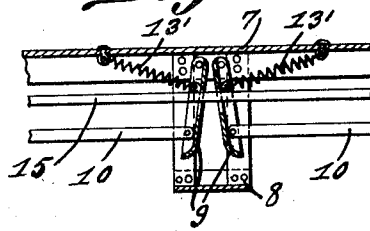


Fig. 6.



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UNITED STATES PATENT OFFICE

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TRAY RACK

Application filed May 23, 1930. Serial No. 455,116.

This invention relates to a tray supporting rack for use in restaurants and the like, the general object of the invention being to provide a rack composed of a pair of upright members and cross members having means thereon for supporting trays, with means for adjusting the tray supporting members vertically so that the trays can be held at any desired height.

This invention also consists in certain other features of construction and in the combination and arrangement of the several parts, to be hereinafter fully described, illustrated in the accompanying drawings and specifically pointed out in the appended claims.

In describing the invention in detail, reference will be had to the accompanying drawings wherein like characters denote like or corresponding parts throughout the several views, and in which:—

Figure 1 is a front view of the device.

Figure 2 is a similar view, but showing parts in section and the tray supporting members in lowered position.

Figure 3 is a top plan view.

Figure 4 is a section on line 4—4 of Figure 1.

Figure 5 is a section on line 5—5 of Figure 1.

Figure 6 is a detail in section and elevation, showing a modified mounting of the pivoted elements controlling the latch bars, tension springs being employed for holding them in the position illustrated in this view.

In these drawings, the numeral 1 indicates a pair of upright members having the feet forming members 2 at their lower ends and the two members 2 are connected together by the cross piece 3 having an inverted U-shaped member 4 fastened to its central part. A sleeve 5 is slidably arranged on each upright and a vertically arranged hollow member 6 is connected with the inner side of each sleeve, with its upper end extending above the upper end of the sleeve. A channel bar 7 has its ends connected with the members 6. A housing 8 depends from the central part of the channel bar 7 and a pair of levers 9 is pivoted to the bar 7 at the sides thereof and

are arranged in the housing. A latch bar 10 is pivoted to the lower part of each lever and these latch bars extend through slots 11 in the members 5 and 6 and have their outer ends adapted to engage slots 12 in the upright members so as to hold the structure, consisting of the channel bar 7 and the members 5 and 6, in adjusted position on the uprights. By moving the levers 9 toward each other, the latch bars 10 are moved out of the slots 12 so that the structure can be adjusted on the uprights. Springs 13, connected with the latch bars and the members 6, normally hold the latch bars in projected position.

A small lever 14 is pivoted to a hanger 15 carried by the bar 7, the lower end of the lever being pivotally connected with one of the latch bars 10, and the upper end of the lever is connected by a link 15 with a short upright 16 on the other latch bar so that movement of one latch bar will be communicated to the other. A second channel-shaped bar 17 has its ends fastened to the depending bars 18, and these bars telescope into the upper ends of the members 6 and carry the bolts 19 which pass through the vertical slots 20 in the members 6, the parts being held in adjusted position by the wing nuts 21 on the bolts. Thus the bar 17 can be adjusted toward and away from the bar 7.

Each of the bars 7 and 17 carry a pair of tray holding clamps 22 for holding a tray A. Each clamp comprises the clamping parts 23 for engaging a bar and the tray clamp 24 for holding an edge of a tray between itself and a part 25 connected with the upper clamp. These parts are held together by a bolt 25 which passes through the parts and through a slot in the bar and has a wing nut 26 on its threaded end. Thus each tray clamp can be adjusted toward and away from the other clamp of a pair in order to accommodate trays of different sizes and the member 24 clamps the tray in position. Stop pins 27 are arranged adjacent the upper and lower ends of the uprights for limiting the movements of the sleeves 5.

From the foregoing it will be seen that I have provided means whereby a tray can be easily and quickly attached to its supporting

member, with means for adjusting the height of the supporting member from the floor so that the tray can be held at the most desirable height. The upper tray holding means can also be adjusted toward and away from the lower means and the upper means can be entirely removed when it is only necessary to use the device with one tray.

It is thought from the foregoing description that the advantages and novel features of the invention will be readily apparent.

It is to be understood that changes may be made in the construction and in the combination and arrangement of the several parts, provided that such changes fall within the scope of the appended claims.

An example of this kind is shown in Figure 6, wherein a slightly modified form of control for the latch bars is illustrated. In this construction, springs 13' tend to normally hold the levers 9 in the position illustrated in the view under consideration. The springs are attached to the levers and to bar 7, and the latch bars 10 therefore move to engaging position under the action of springs 13 and 13'.

What I claim is:—

1. A device of the class described comprising a pair of uprights, sleeves slidably arranged on the uprights, manually operated latch means for holding the sleeves in adjusted position on the uprights, a cross piece connected with the sleeves, tray clamps carried by the cross piece, additional tray clamps, and means for securing the additional clamps to the sleeves and permitting vertical adjustment with reference to said sleeves.

2. A device of the class described comprising a pair of uprights, sleeves slidably arranged on the uprights, manually operated latch means for holding the sleeves in adjusted position on the uprights, a cross piece connected with the sleeves, tray clamps carried by the cross piece, a second cross piece, depending members connected with the ends thereof, means for adjustably connecting the end members with the sleeves and tray clamps carried by the second cross piece.

3. A device of the class described comprising a pair of uprights, sleeves slidably arranged on the uprights, manually operated latch means for holding the sleeves in adjusted position on the uprights, a cross piece connected with the sleeves, tray clamps carried by the cross piece, a second cross piece, depending members connected with the ends thereof, means for adjustably connecting the end members with the sleeves, tray clamps carried by the second cross piece and means for adjusting the clamps on each cross piece toward and away from each other.

4. A device of the class described comprising a pair of uprights, sleeves slidably arranged on the uprights, a cross piece having

its ends connected with the sleeves, levers having their upper ends pivoted to the cross piece at the center thereof, a latch bar connected with each lever, the sleeves having openings therein for receiving the outer ends of the latch bars and the uprights having openings therein for receiving the outer ends of the cross bars, springs for normally holding the latch bars in projected position, said latch bars being moved to releasing position by moving the levers toward each other and tray clamping means carried by the cross piece.

5. A device of the class described comprising a pair of uprights, sleeves slidably arranged on the uprights, a cross piece having its ends connected with the sleeves, levers having their upper ends pivoted to the cross piece at the center thereof, a latch bar connected with each lever, the sleeves having openings therein for receiving the outer ends of the latch bars and the uprights having openings therein for receiving the outer ends of the cross bars, springs for normally holding the latch bars in projected position, said latch bars being moved to releasing position by moving the levers toward each other, tray clamping means carried by the cross piece and means for communicating the movement of one latch bar to the other bar.

In testimony whereof I affix my signature.

ROBERT C. BURNLEY.