

July 12, 1927.

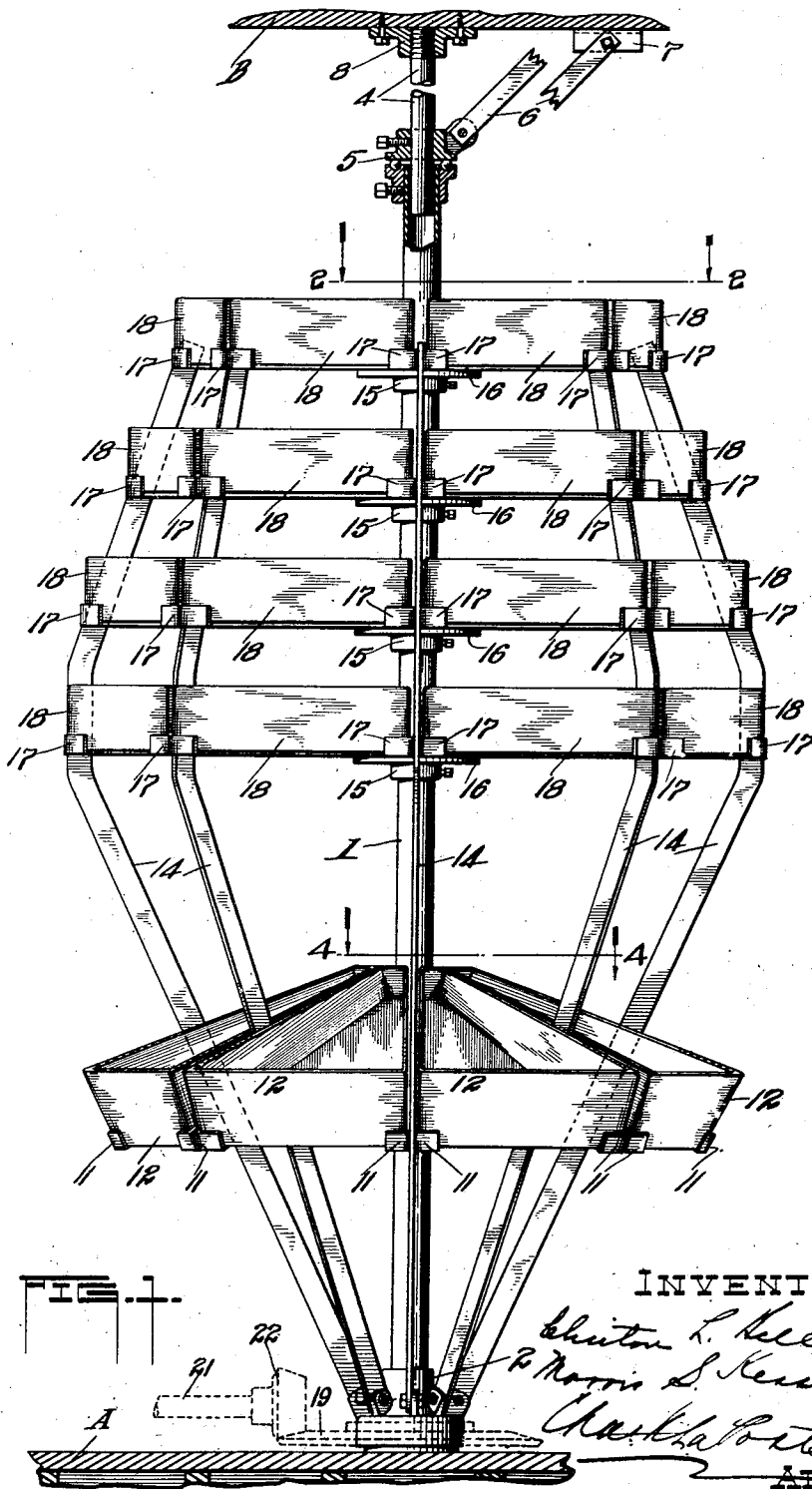
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DISPLAY RACK

Filed March 8, 1924

2 Sheets-Sheet 1.



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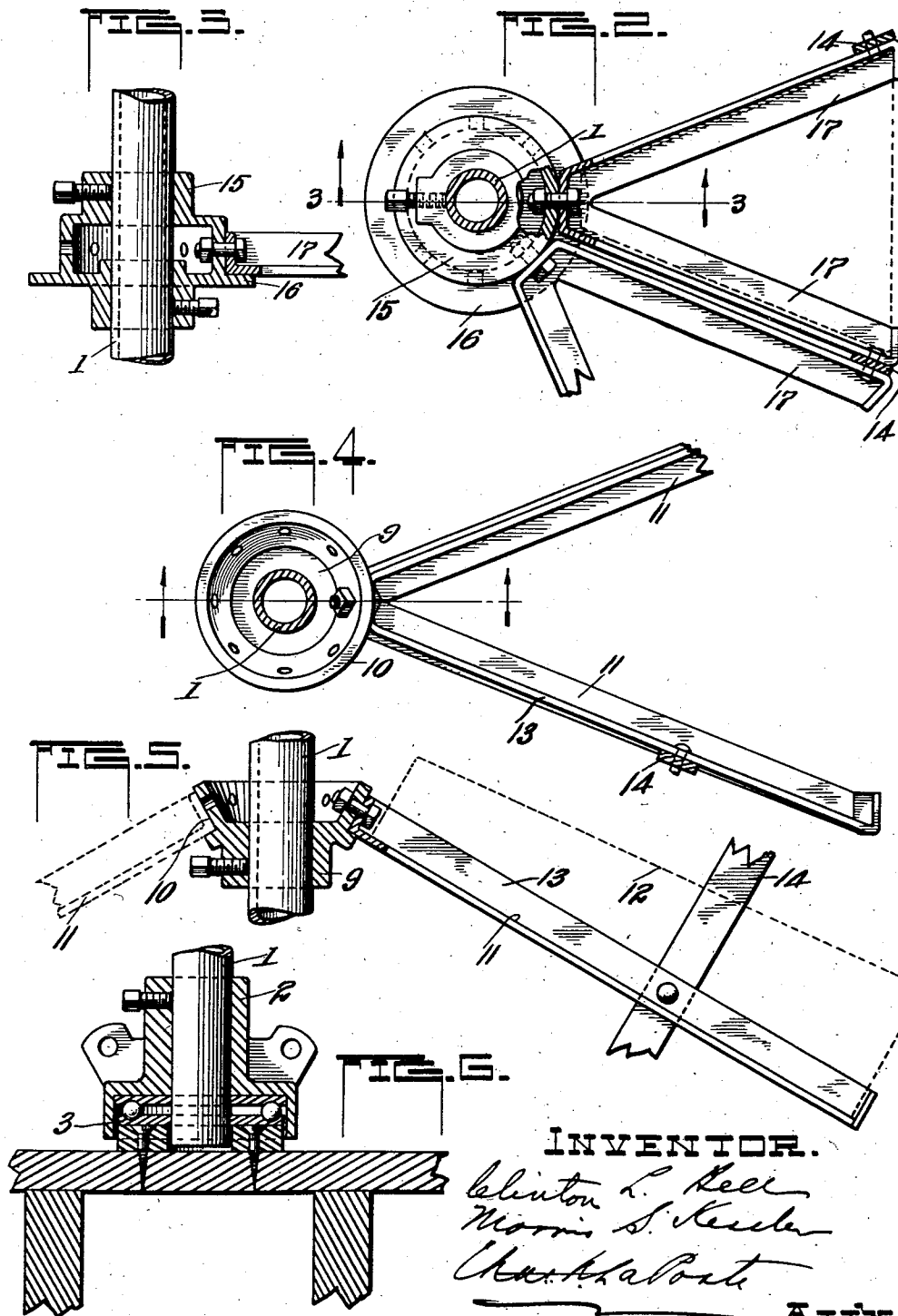
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2 Sheets-Sheet 2



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UNITED STATES PATENT OFFICE.

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DISPLAY RACK.

Application filed March 8, 1924. Serial No. 697,943.

This invention has reference to display racks, and it has for its principal object to provide a rotatable rack, including pans or trays, preferably supported in pyramid style, and adapted particularly for use in grocery stores, but which may be found useful in other lines of trade.

A further object of the invention is to provide a rotatable display rack, including a standard to which are secured supporting arms on which may rest, to be removed therefrom, pans or trays in pyramid style, certain of which may be inclined to others which are supported in flat or horizontal positions.

The invention further comprehends a rotatable display rack for grocery stores and the like, which is compact as well as ornamental, and which may be placed in a show window and rotated from a motor or like power.

A still further object of the invention is to provide the rack with removable pans or trays to facilitate emptying the same and for cleaning.

This application is a companion to one filed of even date herewith, in which the standard and mountings therefor and the specific type of pan or tray supports are claimed.

That the invention may be more fully understood, reference is had to the accompanying drawings, forming a part of this description, illustrating a preferred embodiment of the invention, in which:—

Figure 1 is an elevation of our improved display rack, partly broken away and partly in section;

Figure 2 is a partial plan in section, as the same would appear on the line 2—2 Figure 1;

Figure 3 is a detail sectional elevation as the same would appear on the line 3—3 Figure 2;

Figure 4 is a partial plan in section, as the same would appear on the line 4—4 Figure 1;

Figure 5 is an elevation, partly in section of what is shown in Figure 4, and

Figure 6 is a detail sectional view of the base for the rotatable standard.

Like characters of reference denote corresponding parts throughout the figures.

The standard 1 for the rack is sustained in a preferably upstanding position between the floor A and ceiling B. of a store-room, its lower end carried in a coupling member 2 forming a component part of a ball bearing base 3 secured to the floor A on or in which the standard rotates. The base 3 and coupling member 2 may be of any approved construction. The upper end of the standard 1 has telescoped therein the non-rotatable extension 4 coupled to the standard by means of a suitable ball bearing coupling 5, one member of which has connected thereto a sustaining and bracing member 6 coupled at its other end to a member 7 secured to the ceiling. The upper end of the extension 4 is coupled in a coupling 8 secured to the ceiling.

At a suitable point above the member 2 there is secured to the standard 1, a collar 9, see Figure 5, which said collar is formed or provided with a preferably inwardly and downwardly inclined peripheral face 10, and bolted or otherwise suitably secured to said peripheral face of said collar are a plurality of frames 11 which extend radially from the collar and are inclined downwardly, see Figures 1 and 5. Said frames are preferably made of angle iron to provide rests for pans or trays 12 and are V shape, the apex of each frame being secured to the collar 9 and the side arms 13 of adjacent frames lie alongside of each other, and between said side arms, mediate their ends, and secured thereto are supporting and bracing bars 14, which are bolted or otherwise suitably secured at their lower ends to the coupling 2 and diverge therefrom in an upward and outward direction, between the frames 11, as described, to a suitable point and then converge upwardly for a suitable distance, preferably stopping short of the upper end of the standard 1.

The pans or trays 12 are approximately triangular in shape to conform to the frames 11 and to be supported in the angles of the side arms 13, as will be understood. As will be obvious, these pans or trays are removable from the frames for emptying the same of their contents and for cleaning, and are preferably white baked enamel for sanitary reasons. The ends of the side arms being upturned to prevent outward dis-

placement of the pans or trays on said frames.

Arranged in superimposed positions, one above the other, and above the collar 9, are a plurality of collars 15 which are secured to the standard 1. Each collar is formed or provided with a flange 16 providing a rest for the inner ends of frames 17 which are bolted or otherwise suitably secured to said collars 15. These frames 17 are not unlike the frames 11, except that they are horizontally arranged in radial position around the standard 1 and in pyramid style above the frames 11 and above each other, as shown in Figure 1. The bracing bars 14 extend up between adjacent frames 17 and preferably secured thereto, at or near their outer ends, see Figures 1 and 2. Removably supported in said frames 17 are bins or trays 18, which are not unlike the trays 12, except that they are supported in preferably horizontal positions, as shown.

The display rack as designed is ornamental and attractive, conveniently assembled and easy of access for removing or replacing the different pans or trays, and being mounted on a rotatable support are arranged for easy access. Being compact the rack may be located in a corner of a store or at the end of a counter, and for display purposes may be placed in a show window and be slowly revolved to display the wares in the different pans or trays. To accomplish this, the coupling 2 may be provided with a bevel gear wheel 19 meshing with a bevel pinion 20 on a shaft 21 operated from a suitable source of power. If desired, two or more of such racks may be placed on display and the same rotated from a common source of power.

The lower tier of pans or trays 12 may be at a point on the standard 1 to be looked down upon, whereas the upper tiers of pans or trays 18 may be located so as to be more nearly on a level with the eyes of the purchaser.

What we claim is:—

1. A display rack comprising a central

support, means on said support for holding a plurality of trays in radial arrangement therearound and in inclined positions in relation to the support, other means for holding a series of sets of trays in radial arrangement around said support and in pyramidal arrangement above each other and bracing bars secured to the support and to the supporting and holding means outwardly from the support, said bracing bars being common to the several supporting and holding means.

2. A display rack comprising a support, a series of frames connected to said support in radial relation and at an inclination thereto, a tray for each frame, a series of frames connected to said support above said first mentioned frames and in horizontal radial relation thereto, a tray for each of said last mentioned frames, each frame being V-shaped and secured at its apex to the support, and a bracing means common to all of said frames and secured to the arms thereof.

3. A display rack comprising a vertically arranged standard mounted for rotation, a member connected to said standard, a series of open V shape frames connected to said member and arranged in radial relation and at an inclination to the standard, a tray removably supported on each of said frames, a plurality of collars connected to said standard in spaced relation one above the other, a series of open V shape frames connected to each collar in radial arrangement and disposed in horizontal position in relation to the standard, a tray removably supported on each of said last mentioned frames, and a plurality of braces connecting adjacent frames of each series and having their lower ends connected to the lower end of said standard.

In witness whereof we have hereunto affixed our hands this 1st day of March, 1924.

CLINTON L. BELL.
MORRIS S. KESSLER.