

Dec. 10, 1929.

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1,739,403

SECTIONAL OIL BARREL RACK

Filed Sept. 3, 1927

2 Sheets-Sheet 1

Fig. 1.

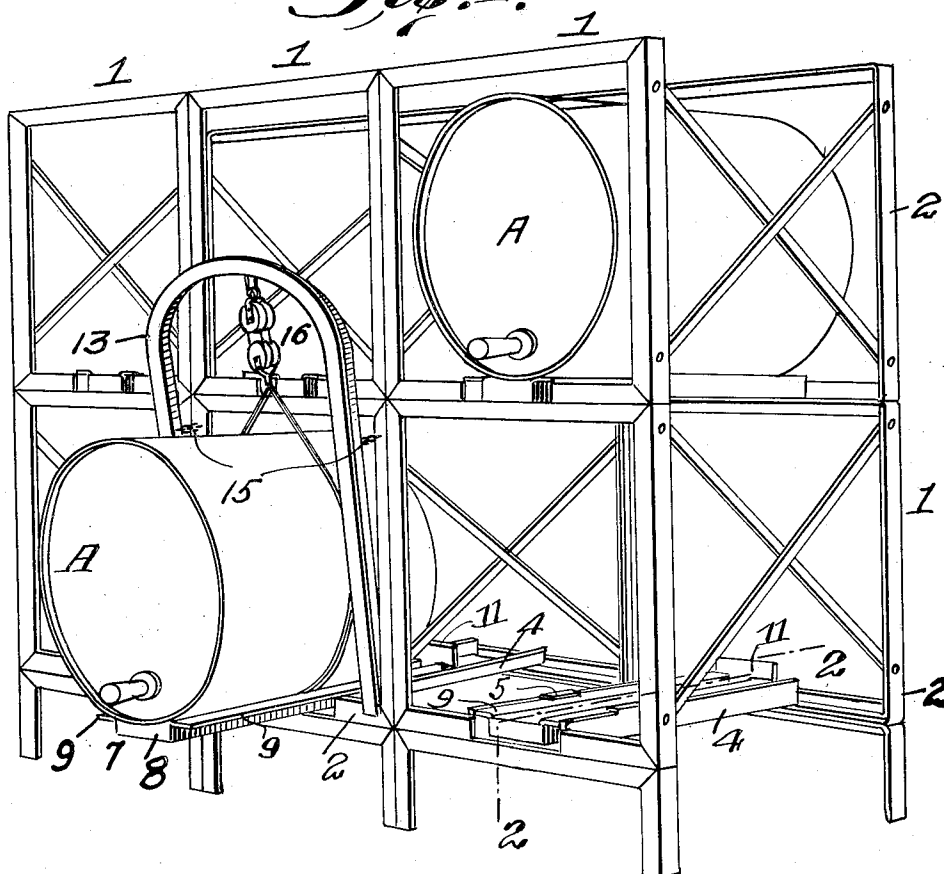


Fig. 2.

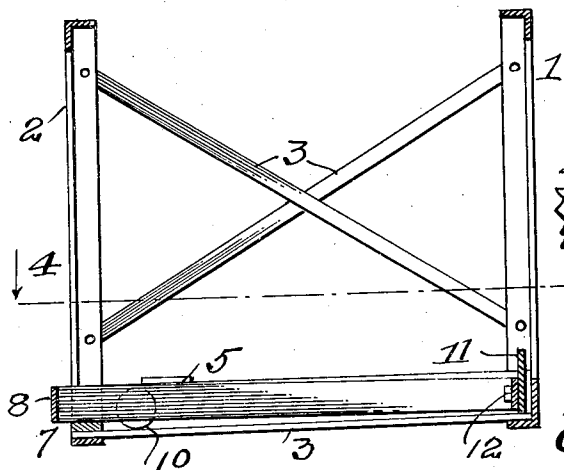
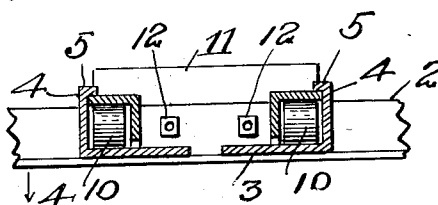


Fig. 3.



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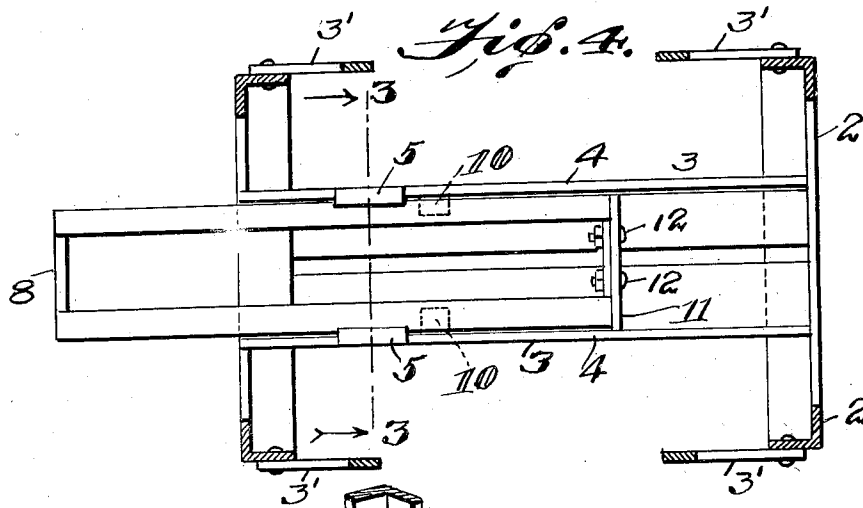
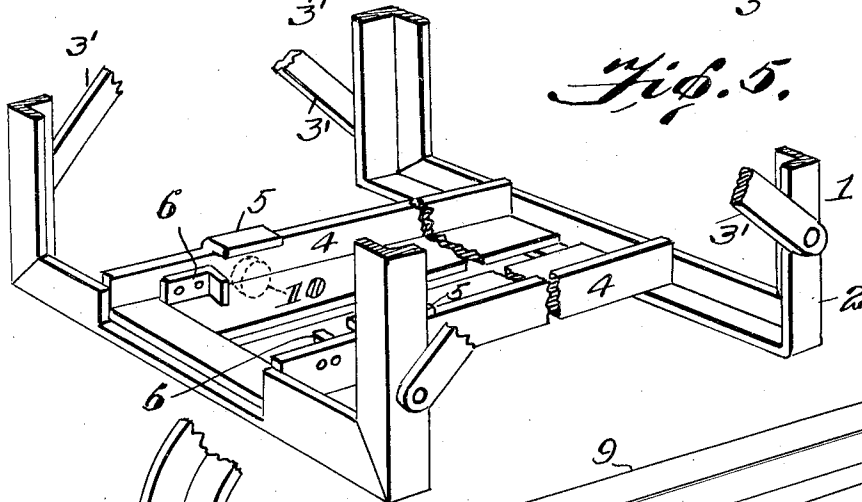
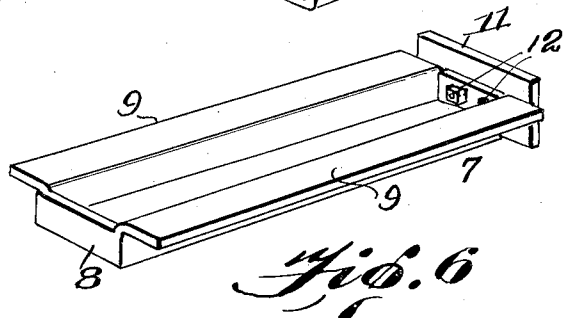
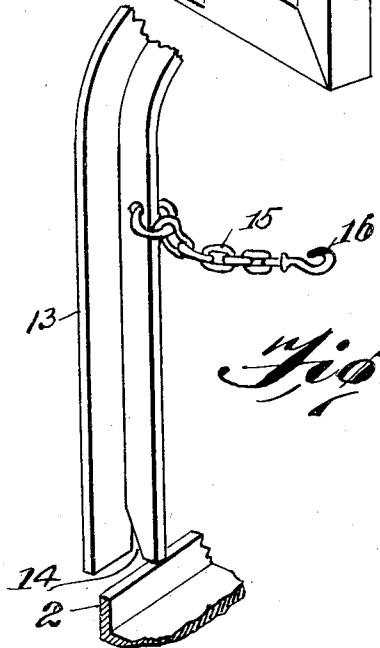
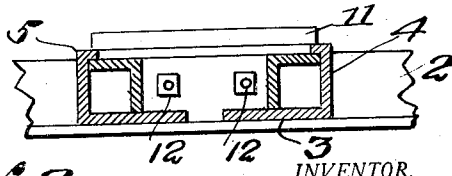
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2 Sheets-Sheet 2



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UNITED STATES PATENT OFFICE

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SECTIONAL OIL-BARREL RACK

Application filed September 3, 1927. Serial No. 217,386.

This invention relates to a sectional oil barrel rack, and more particularly to the construction of each section constituting the rack.

5 The object of the invention is the construction of a section of a rack which is provided with efficient means for receiving and supporting a barrel.

10 Another object of the invention is the construction of a rack that requires a small amount of floor space, whereby a number of barrels or containers can be supported in a relatively small amount of space in a store or a show room.

15 Another object of the invention is the construction of a rack composed of units or sections whereby the rack can be easily shipped, since each section may be more readily shipped separately, than the rack as a whole, and upon delivery of the sections, the owner can install as many racks as he has barrels for service.

20 A still further object is the construction of a barrel rack, whereby a number of barrels can be displayed in a small space, allowing oil to be drained out of the barrels, so that the customer can see the kind of oil he is receiving, as the oil is drained from the original container.

30 In the drawings:

Figure 1 is a perspective view of a barrel rack constructed in accordance with the present invention.

35 Figure 2 is a sectional view taken on line 2—2, Figure 1.

Figure 3 is a sectional view taken on line 3—3, Figure 4, and looking in the direction of the arrows.

40 Figure 4 is a sectional view taken on line 4—4, Figure 2, and looking in the direction of the arrows.

Figure 5 is a fragmentary, perspective view of one of the sections of the rack.

45 Figure 6 is a perspective view of the slidable barrel support.

Figure 7 is a fragmentary, perspective view of the barrel hoist.

50 Figure 8 is a transverse sectional view, of a modification of the track and slidable bar-

rel support, without rollers (see Fig. 3 for the preferred embodiment).

Referring to the drawings by numerals, 1 designates the sections or units of the rack. Each section 1 comprises a frame 2, preferably formed of angle iron, with inclined braces 3 constituting a part of the frame. In the bottom of the frame 2 is formed a track 3. This track 3 is provided with upstanding sides 4, 4; each side 4 is provided near its front end with inwardly extending, overhanging guide 5. Fastened to the inner face of each side 4, near the front end, and contiguous to guide 5, is an angle stop 6 (Fig. 5). One part of the frame extends across the inner end of the track, as shown in Figure 5, which limits the inward movement of the slidable barrel support 7.

The slidable barrel support 7 comprises an elongated frame 8 with outwardly extending flanges 9. These flanges 9 are under overhanging guide 5. Under flanges 9, and rotatably mounted on track 3 are rollers 10. The plate 11 is fastened by bolts 12 to the inner end of frame 8 and serves to keep the rollers 10 from passing from under the inner ends of flanges 9; also this plate 11 strikes against the inner ends of guides 5 to prevent the support 7 from moving too far out, whereby it is prevented from being accidentally displaced off the track. The angle stops 6 prevent the rollers 10 from rolling off the front of the track.

In the embodiment shown in Figure 8, the same structure is involved as illustrated in Figure 3, except that frame 8 is made a little deeper to slide directly upon track 3, and the rollers 10 are omitted.

The sections or units shown in Figures 1, 2, 4 and 5 are stacked or nested together (Fig. 1), and any suitable means may be employed for holding them in such position.

The loaded barrel or container is hoisted, and placed upon the extended slidable barrel support 7 (Figs. 1 and 4), with the weight resting upon the rollers 10. Then upon the operator shoving inwardly upon the barrel, the barrel will easily move into frame 2, whereby it will be readily accessible for the oil to be removed as purchased. It will also

be apparent that as each barrel is branded with the manufacturer's name thereon, the purchaser can see that he is securing the oil in its original container.

5 To hoist the barrel, and place it in the particular frame or section, or to remove an empty barrel therefrom, I employ a hoist comprising an inverted U-shape frame 13 that has, at its ends, preferably V-shape
10 notches 14, into which notches are fitted the upstanding front edge of the frame 2 (Figs. 1 and 7); this way of mounting the hoist on the frame prevents it from slipping off, while at the same time allows it to be easily
15 removed by the operator, then placed upon another section, when it is desired to place a barrel in position or remove it from a particular section. At each side of the U-shape frame 13, I fasten chains 15 (Figs. 1 and 7);
20 these chains are suitably attached at one end to frame 13, and their other end is provided with a hook 16 that hooks around a part of the section (or frame 2) to allow the hoist to swing outwardly, away from the section,
25 as the operator may desire. A suitable block and tackle 16 is carried by the frame 13, for engaging the barrel or container A and permitting the operator to manipulate the barrel for placing it in position upon the barrel
30 support 7, or removing it therefrom. When the hoist is not in use, it can be quickly removed from the section and stored away in a comparatively small space.

In a store, where space is very valuable,
35 the rack, composed of my peculiarly constructed sections, will accommodate a number of loaded barrels or containers, as well as allowing a considerable storing space on top of the sections, provided the sections do
40 not extend to the ceiling.

It will also be understood that a rack composed of my sections may be built into a wall of a building, permitting the barrels to be loaded into the rack from the outside, with
45 their discharge ends in the building. This would possibly make a further conservation of space where ground is very valuable, and rental of floor space consequently high.

From the foregoing description, it is to
50 be understood that my invention comprises primarily a barrel receiving frame, a peculiarly constructed track in said frame, and a peculiarly constructed slidable barrel support on said track.

55 While I have described the preferred embodiments of my invention and illustrated the same in the accompanying drawings, certain minor changes or alterations may appear to one skilled in the art to which this invention
60 relates, during the extensive manufacture of the same; and I, therefore, reserve the right to make such alterations or changes as shall fairly fall within the scope of the appended claims.

65 What I claim is:

1. In a device of the class described, the combination with a frame, of a track on said frame, a slidable support on said track, said track provided with means overhanging said support for preventing displacement of the
70 support off the track in one direction, and said support provided with means adapted to engage said overhanging means for preventing the support from being displaced off the track in another direction.

2. In a device of the class described, the combination with a frame, of a track on said frame, said track provided near its front end with inwardly extending overhanging guides, angle stops fastened to the inner face of said track contiguous to said guides, a slidable
80 support on said track, said support provided with outstanding flanges under said guides, said support provided with a "stop" plate at its inner end adapted to engage said guides, and rollers under said outstanding flanges and on said track and adapted to engage said angle stops.

3. In a device of the class described, the combination with a frame, of a track mounted upon the frame, said track provided with upstanding sides, said upstanding sides provided upon their upper edges with overhanging guides, angle stops fastened to the inner faces of said upstanding sides, contiguous
95 to said guides, a sliding barrel support on said track with outstanding flanges under said guides, rollers on said track under said flanges and adapted to engage said angle stops, and a detachable "stop" plate fastened
100 to the inner end of said barrel support and adapted to engage the inner ends of said overhanging guides for limiting the outward sliding movement of said support.

In testimony whereof I hereunto affix my
signature.

GUSTAVE E. LUNDBERG.