

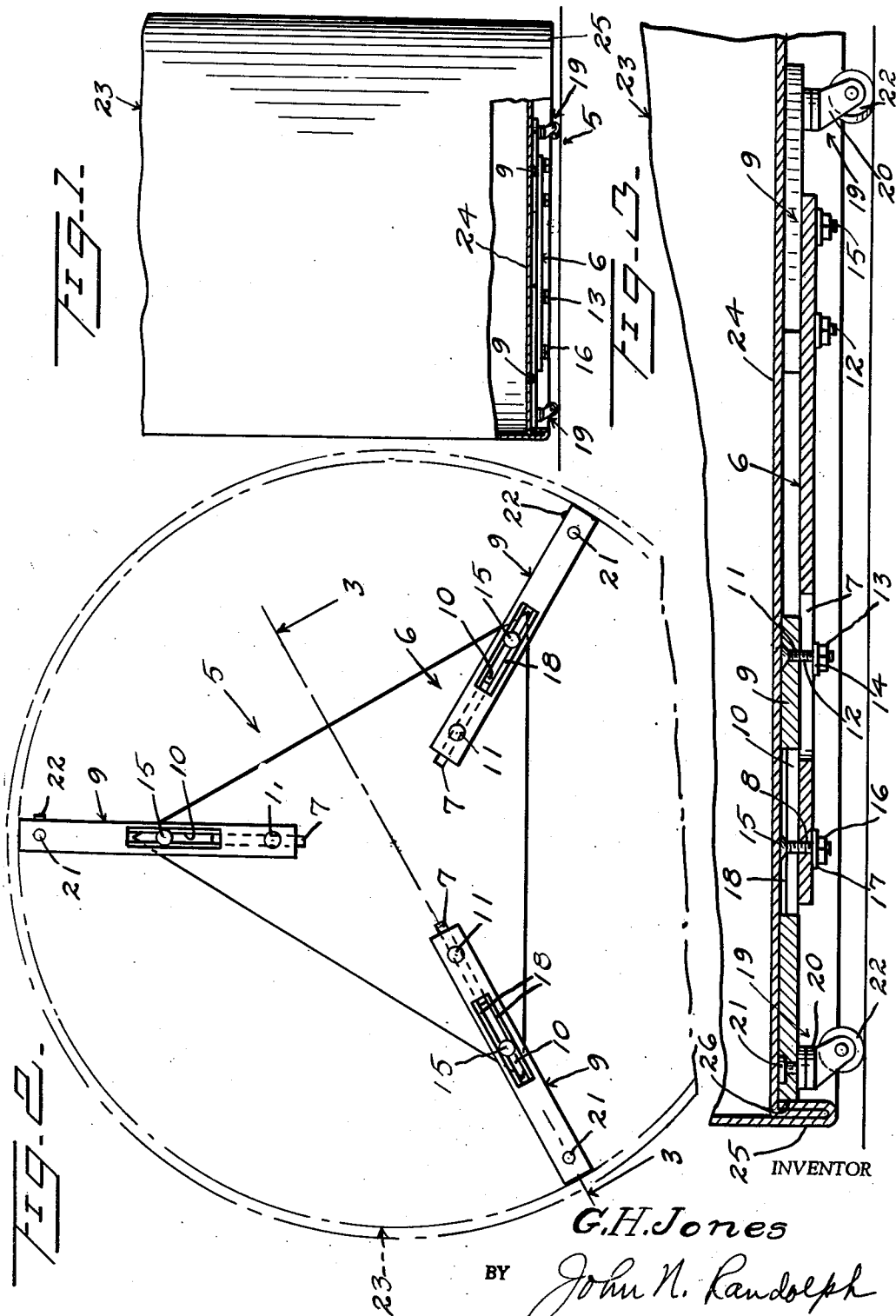
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MOBILE RECEPTACLE SUPPORT

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MOBILE RECEPTACLE SUPPORT

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1 Claim. (Cl. 248—129)

This invention relates to a novel mobile receptacle support and more particularly to a support for cans, large buckets, barrels and other receptacles having a recessed bottom surrounded by a depending flange.

A primary object of the present invention is to provide a support which may be readily secured to receptacles of different cross sectional sizes beneath the bottom thereof for supporting the receptacle in a slightly elevated position and with the center of gravity thereof as low as possible to thus provide an extremely stable mobile support.

A further object of the invention is to provide a support of the afordescribed character which will be substantially concealed when in an applied position, yet which will enable a receptacle supported thereby to be readily moved on the surface engaging wheels of the support.

A further object of the invention is to provide a receptacle support wherein the weight of the receptacle and its contents will be supported primarily adjacent portions of the periphery of the receptacle directly over the support wheels, so that the support can be made extremely light in weight yet capable of sustaining a substantial weight.

A further object of the invention is to provide a mobile support which may be very economically manufactured and sold yet which will be extremely efficient and durable in use.

Other objects and advantages of the invention will hereinafter become more fully apparent from the following description of the drawing, illustrating a presently preferred embodiment thereof, and wherein:

Figure 1 is a fragmentary side elevational view partly in vertical section of the lower portion of a can or receptacle shown mounted on and secured to the mobile support;

Figure 2 is an enlarged top plan view of the support, and

Figure 3 is a fragmentary sectional view of the support applied to the bottom portion of a receptacle and taken substantially along a plane as indicated by the line 3—3 of Figure 2.

Referring more specifically to the drawing, the mobile support in its entirety and comprising the invention is designated generally 5 and includes a substantially flat plate 6 which is preferably of triangular shape, as illustrated in Figure 2. The plate 6 is provided with elongated slots 7 which align with the three corners thereof and the outer ends of which are spaced inwardly from said corners. The plate 6 is provided with an opening 8 between each of its corners and the adjacent slots 7, as seen in Figure 3.

The support 5 also includes three corresponding elongated arms 9 each of which is provided intermediate of the ends thereof with an elongated slot 10. The arms 9 are provided adjacent inner ends thereof with openings 11. The arms 9 are disposed in alignment with the three corners of the plate 6 and have their inner ends overlying said plate. Bolts 12 extend downwardly through

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the openings 11 and loosely through the slots 7 disposed therebeneath and have their heads countersunk in the upper ends of the openings 11, as seen in Figure 3. A nut 13 threadedly engages the lower end of each bolt 12 and supports a washer 14 which is disposed on the bolt between the nut and the underside of the plate 6 and which is of a diameter substantially greater than the width of the slot 7.

Similar bolts 15 extend downwardly through the slots 10 and the openings 8 and have nuts 16 threaded on their lower ends and support washers 17 which are disposed between said nuts and the underside of the plate 6. The upper edges of the side walls of the slots 10 are beveled as seen at 18 for countersinking therein the heads of the bolts 15; so that the heads of the bolts 12 and 15 will be disposed substantially flush with the upper surfaces of the arms 9, as seen in Figure 3.

The other outer end portions of the arms 9 extend outwardly from the corners of the plate 6. A caster, designated generally 19, is swivelly mounted beneath and supports the outer end of each arm 9. Each caster 19 includes a frame or fork 20 which is swivelly disposed beneath an arm 9 and swivelly connected thereto by a headed kingbolt 21 which is swivelly mounted and countersunk in said arm. A caster wheel 22 is journaled in each frame or fork 20. At least the peripheral or tread portion of each wheel 22 is formed of rubber.

A portion of the lower part of a receptacle 23, such as a can, is illustrated in the drawing and includes a substantially flat bottom 24. The can or receptacle 23 has a bottom flange 25 to which the bottom 24 is secured and which extends downwardly from the plane of said bottom and is disposed completely around the receptacle, as is conventional.

The bottom portion of the receptacle 23 is applied over the mobile support 5 so that portions of the bottom 24 thereof rest on the arms 9. With the nuts 13 and 16 loosened, the arms 9 can be extended outwardly relative to one another, by the bolts 12 sliding in the slots 7 and by the slots 10 of the arms 9 sliding relative to the bolts 15 until the outer end surfaces 26 of the arms 9 abut against the inner side of the flange 25. With the arm ends 26 abutting tightly against the inner side of the flange 25, the nuts 13 and 16 are tightened for securing the support 5 to the flange 25 so that the arms 9 thereof will abut against the underside of the bottom 24. With the receptacle 23 thus applied to the support 5, bottom portions of the caster wheels 22 will depend sufficiently below the bottom edge of the flange 25 for supporting the receptacle in a slightly elevated position so that when the receptacle is pushed it will roll with the support 5 on the wheels 22 to facilitate movement of the receptacle. The casters 19 are spaced sufficiently from the outer arm ends 26 to allow said castors to swivel through a complete circle without contacting the flange 25.

While the support 5 is adjustable for fitting cans or receptacles of different cross sectional sizes, said support may also be made in different sizes, each of which is capable of fitting receptacles of a range of sizes. It will also be apparent that the plate 6 may be of any desired shape.

Various other modifications and changes are likewise contemplated and may obviously be resorted to, without departing from the function or scope of the invention as hereinafter defined by the appended claim.

I claim as my invention:

A mobile receptacle support comprising a substantially flat rigid plate, a plurality of arms having inner end portions overlying an upper side of said plate, means securing said inner end portions to the plate for positioning the arms in alignment with the center of the plate, said arms having outer portions spaced outwardly from

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the plate, supporting wheels connected to and disposed beneath said outer portions of the arms for supporting the arms and plate in an elevated position, said support being adapted to be disposed beneath the underside of a receptacle bottom, said arms having flat coplanar upper surfaces extending from end-to-end thereof and engaging the underside of the receptacle bottom for supporting the receptacle in a slightly elevated position, the outer ends of said arms being adapted to bear against a surrounding depending flange of the receptacle for maintaining the support immovable relative to the receptacle bottom, the bottom portion of the wheels of the support extending to below the level of said depending flange, each arm having an elongated slot and an opening spaced from the inner end of the slot, said plate having a plurality of elongated slots disposed in alignment with and spaced outwardly from the center of the plate and an opening disposed in alignment with and spaced outwardly from each plate slot, and a pair of adjustable fastenings con-

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necting each arm to the plate, one fastening of each arm engaging the arm opening and a slot of the plate and the other fastening of said arm engaging the arm slot and a plate opening, said slots permitting sliding adjustment of the arms toward and away from the center of the plate in directions axially of the arms, said arms being individually clamped to the plate by tightening the fastenings thereof, said slots, openings and fastenings constituting said securing means.

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