May 15, 1951 I. PIRTLE 2,553,109

GARBAGE CAN STAND

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Fig. 1.

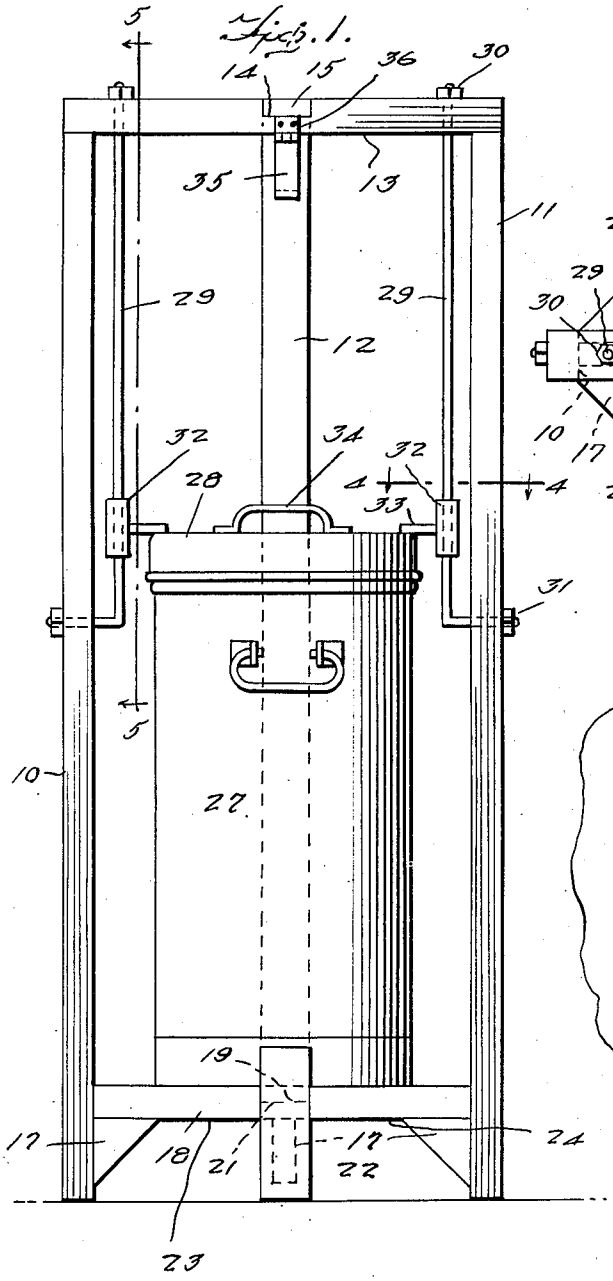
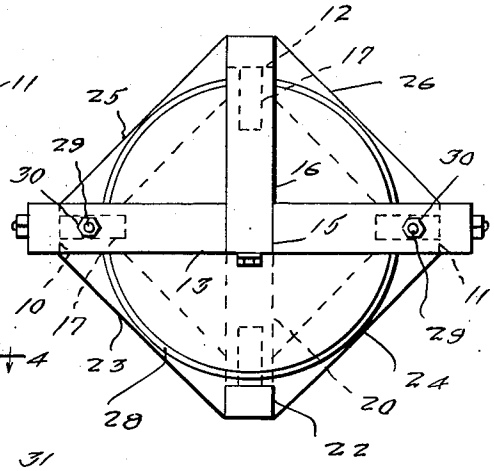


Fig. 3.



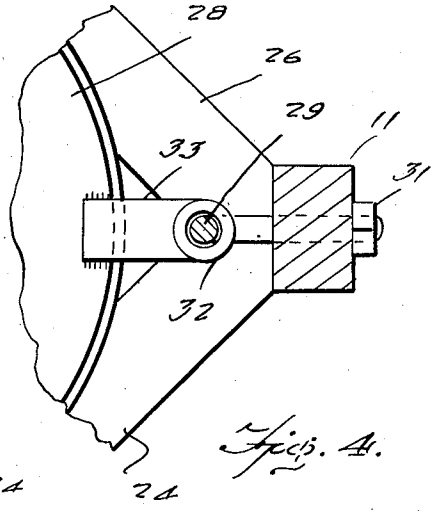


Fig. 4.

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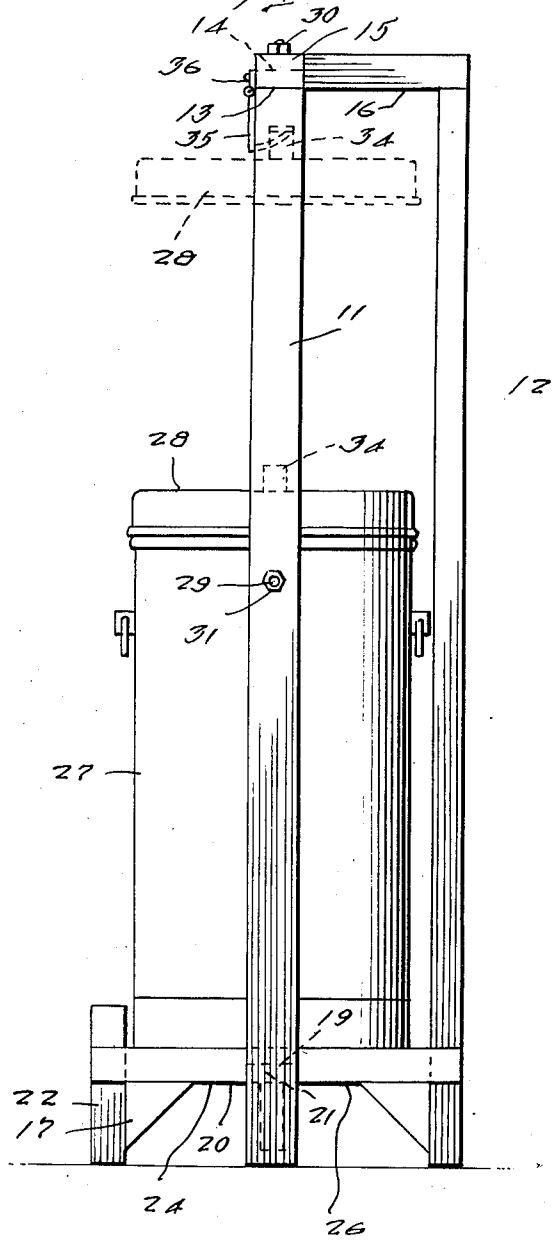
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McMorrow, Berman & Davidson
Attorneys

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GARBAGE CAN STAND

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Fig. 2.



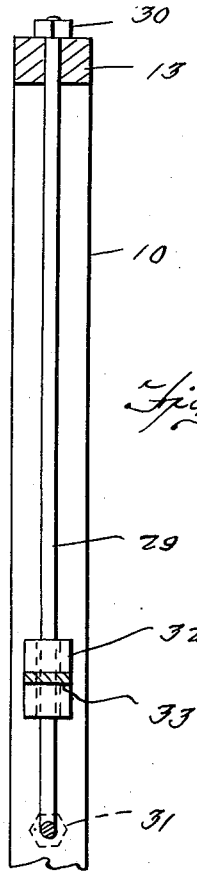
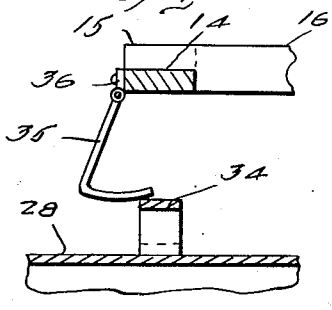


Fig. 5.

Fig. 6.



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GARBAGE CAN STAND

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Fig. 9.

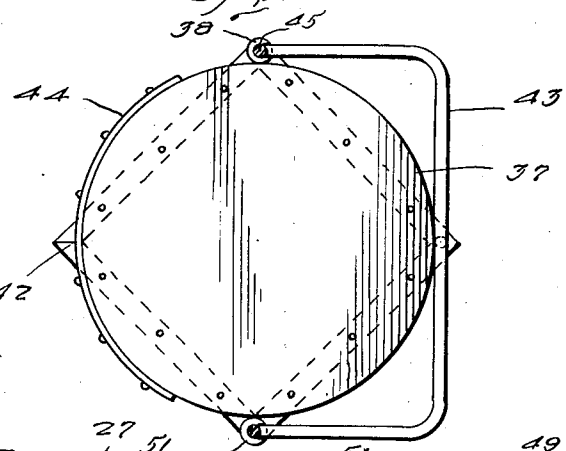


Fig. 7.

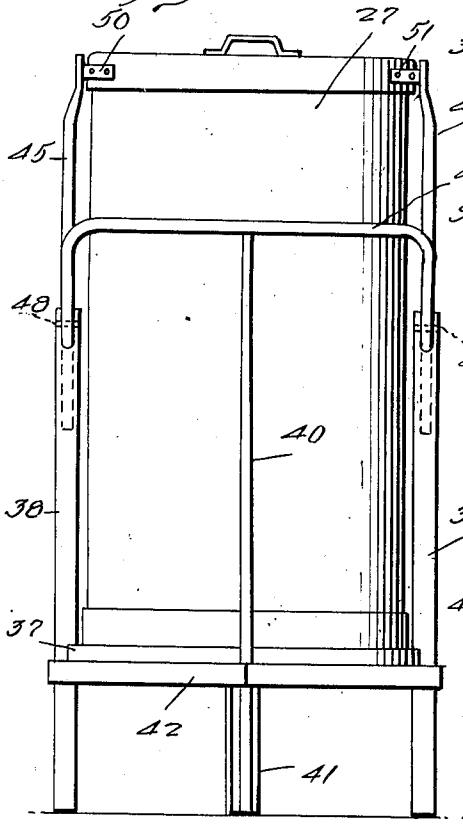
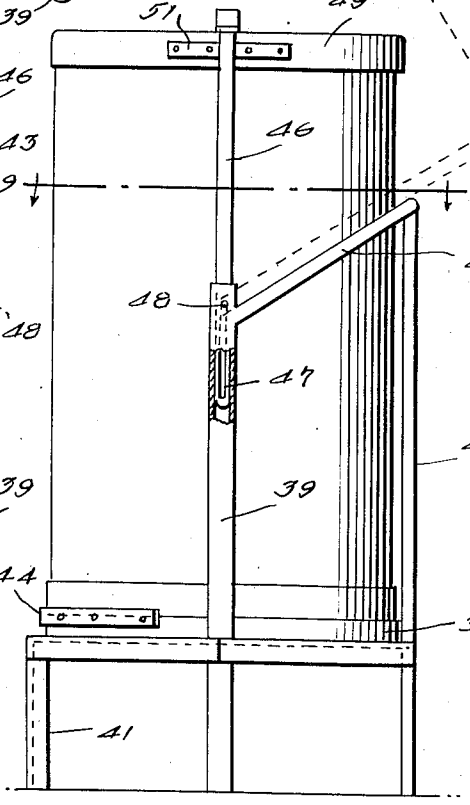


Fig. 8.





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GARBAGE CAN STAND

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Fig. 10.

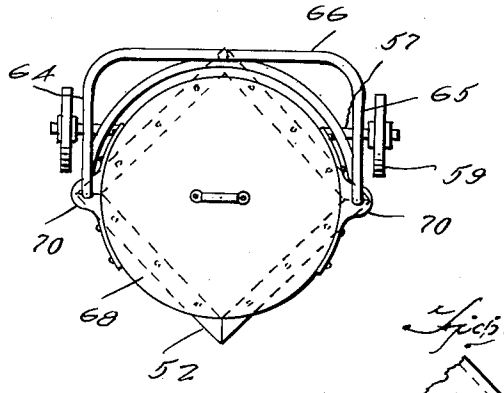


Fig. 14.

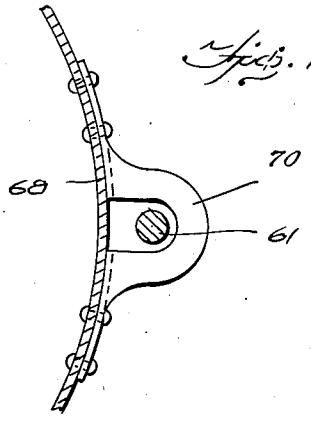


Fig. 13.

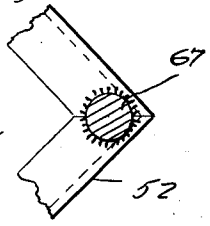


Fig. 11.

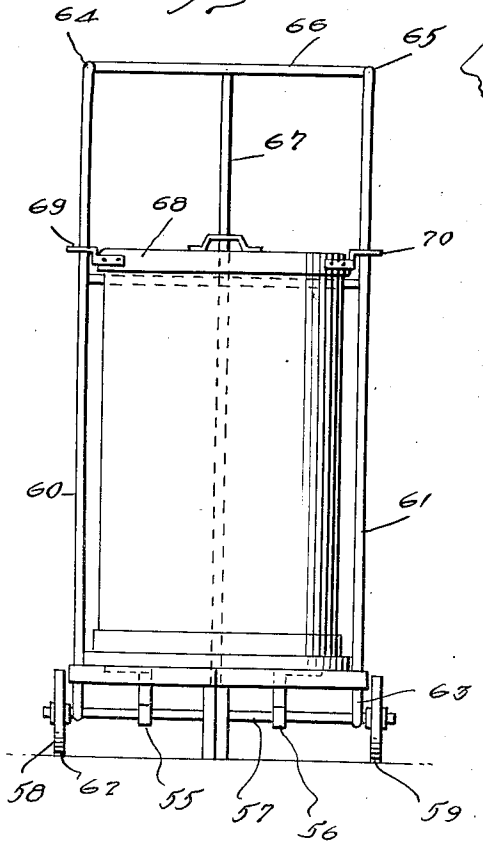
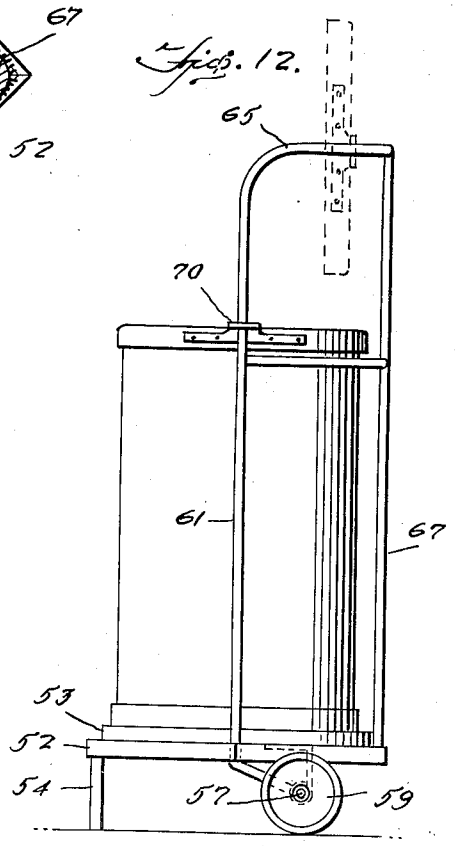


Fig. 12.



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Patented May 15, 1951

2,553,109

UNITED STATES PATENT OFFICE

2,553,109

GARBAGE CAN STAND

Ira Pirtle, Phoenix, Ariz.

Application March 7, 1947, Serial No. 733,166

2 Claims. (Cl. 248—129)

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This invention relates to stands or supports for garbage cans and the like, wherein garbage cans are permanently supported in elevated positions, and in particular a stand that may be stationary or provided with rollers, wherein the can remains permanently on the stand, except when being emptied by a garbage collector, the complete stand with the can thereon being moved from its normal position adjacent the back door to a position at the sidewalk or street, and the can with the cover removed and suspended in the stand is only removed from the stand to empty the contents thereof, wherein, after emptying, it is returned to its position upon the stand.

The usual garbage cans are subjected to severe punishment, because they are often placed upon uneven surfaces and are knocked around, not only by the owner, but also by the garbage collector, and consequently the life of a garbage can is comparatively short. With this thought in mind, this invention contemplates a permanent stand for a garbage can wherein the can remains on the stand and is transported from one position to another by the stand, which may be provided with rollers similar to a hand truck, thereby not only protecting the can but facilitating moving thereof.

Many garbage cans remain upon wet ground which causes the lower ends thereof and the connections at the side to rust, and with this thought in mind, this invention includes a supporting stand for garbage cans wherein the lower end is elevated so that the outer surface thereof may remain dry.

The object of this invention is, therefore, to provide a permanent stand for garbage cans and the like, wherein the can is supported in an elevated position and the supporting surface remains substantially horizontal.

The covers of garbage cans are also subjected to severe punishment, and are sometimes blown away and lost. For this reason, another object of this invention is to provide a garbage can stand in which the cover of the can is permanently attached to the stand and the stand includes means for suspending the cover removed from the can or in the open position.

The usual garbage can is also subjected to abuse from dogs and the like removing the covers and upsetting the cans, and to overcome this, another object of the present invention is to provide a garbage can stand in which the cover and can are securely held and thereby protected from abuse by dogs and the like.

Another object of this invention is to provide

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a supporting stand for garbage cans and the like wherein the stand is portable so that the can and stand may readily be moved from one position to another.

Another object of this invention is to provide a stand for garbage cans and the like in which the structural elements thereof are of comparatively light weight so that the can and stand may be moved from one position to another by the average housewife.

A further object of this invention is to provide a stand for garbage cans and the like which is of a comparatively simple and economical construction.

With these and other objects in view, the invention embodies a substantially horizontal platform with vertically disposed uprights and means at the upper ends of the uprights for holding the cover of the can in both the closed and open positions. The platform may also be provided with wheels and a handle by which it may readily be moved from one position to another.

Other features and advantages of the invention will appear from the following description taken in connection with the drawings, wherein:

Figure 1 is a view showing a front elevation of the garbage can stand with a can illustrated therein.

Figure 2 is a view showing a side elevation of the stand also showing a can therein and illustrating the cover of the can in the open position in dotted lines.

Figure 3 is a plan view looking downward upon the upper end of the stand illustrated in Figure 1.

Figure 4 is a detail showing a sectional plan on line 4—4 of Figure 1, illustrating the connections between one of the side uprights of the stand and cover of the garbage can.

Figure 5 is a detail taken on line 5—5 of Figure 1, showing the garbage can cover-supporting elements.

Figure 6 is a detail showing a vertical section through the upper end of the stand, illustrating a hook element for supporting the cover of the garbage can.

Figure 7 is a view showing a rear elevation of a garbage can stand of an alternate design, wherein the elements of the stand are formed of tubular members.

Figure 8 is a view showing a side elevation of the stand shown in Figure 7, with parts broken away and shown in section, and with the cover-supporting means illustrated in dotted lines, in the position of supporting the cover removed from the upper end of the can.

Figure 9 is a sectional plan showing the stand illustrated in Figures 7 and 8, taken on line 9—9 of Figure 8.

Figure 10 is a plan view of a garbage can stand showing a further modification, wherein the stand is formed of tubular members and supported on wheels.

Figure 11 is a view showing a front elevation of the garbage can stand shown in Figure 10.

Figure 12 is a view showing a side elevation of the garbage can stand illustrated in Figures 10 and 11, showing the cover dotted in the open position.

Figure 13 is a detail showing a section through an edge of the platform of the stand illustrating the connection of an upright at one side of the stand to the platform.

Figure 14 is a detail showing a projecting lug or bearing at the side of the cover of the can by which the cover is slidably mounted on a member of the frame of the stand.

Referring now to the drawings, wherein like reference characters indicate corresponding parts, the garbage can stand of this invention includes uprights 10 and 11 at the sides and 12 at the rear, and the upper ends of the uprights 10 and 11 are connected by a cross-bar 13, as shown in Figures 1 and 2. In the upper surface of the cross-bar 13 is a recess 14 in which a tongue 15 of a short cross-bar 16 is positioned, wherein the bar 16 connects the cross-bar 13 to the upper end of the upright 12.

The lower ends of the uprights 10, 11 and 12 are provided with supporting gussets or brackets 17 which support a horizontal platform 18 upon which a garbage can or the like is placed. The platform 18 may be formed with a laterally extending member 19, and a cross-member 20 extending from the front to the rear with the members dovetailed at the point 21 and with the forward end of the member 20 supported by a post 22 which extends upward slightly above the upper surface of the platform 18. The platform may also be provided with diagonally extending members 23 and 24 at the front and 25 and 26 at the rear, as shown in Figures 1 and 3.

A garbage can, as indicated by the numeral 27, may be placed upon the platform 18 and a cover 28 of the can is slidably mounted on vertically extending bars 29, the upper ends of which are secured in the cross-bar 13 by nuts 30 and the lower ends of which extend outward through the side uprights 10 and 11 in which they are held by nuts 31. The cover 28 is supported in sliding sockets 32 through arms 33, the ends of which are welded, or otherwise permanently secured, to the cover, and the cover may be supported in an open or elevated position through a handle 34 thereof that may be engaged by a hook 35 pivotally mounted on a hinge 36 on the surface of the cross-bar 13. It will be noted that in opening the cover, the cover may be moved upward by sliding the sockets 32 on the bars 29 until the handle 34 thereof is in position to be engaged by the hook 35.

In the design shown in Figures 7, 8 and 9, the garbage can 27 is supported on a platform 37 and the platform is supported on legs extending downward from side members 38 and 39 and from a centrally disposed member 40 at the rear and by a short leg 41 at the front. In the design shown, the platform 37 is positioned on a square frame formed of diagonally extending members 42, and the upper ends of the members 38 and 39 are connected to the upper end of the member 40 by an upwardly extending hook-shaped member 43, as illustrated. The forward edge of the platform 37 is also provided with an upwardly extending bar 44 which prevents the lower end of the can sliding off of the front of the platform.

In this design the members 38 and 39 are tubular and upwardly extending members 45 and 46 are slidable therein with the lower ends thereof held in slots 47 by pins 48, as shown in Figure 8. The slots and pins are similar in both members, and the same reference numerals are, therefore, used for both. The upper ends of the members 45 and 46 are attached to the sides of a cover 49 of the garbage can by brackets 50 and 51, as illustrated in Figures 7 and 8. It will be noted that in the stand of this design the can remains permanently in an elevated position in relation to the ground on the platform of the stand, and is removed only when being emptied by a garbage collector. The cover of the can is readily opened by drawing the cover upward, wherein the bars 45 and 46 slide upward in the members 38 and 39, and these may readily be folded backward to the position indicated in dotted lines in Figure 8 with the cover suspended in the ends thereof. After placing products in the can, or after emptying the can, the cover may readily be replaced.

In the design illustrated in Figures 10 to 14, inclusive, the garbage can 27 is mounted upon a platform 52 having an upwardly extending flange 53 locating the can thereon, and the platform is provided with a post 54 at the front and downwardly extending bearings 55 and 56 in which a shaft 57 with wheels 58 and 59 on the ends thereof is mounted. In this design, the platform is provided with uprights 60 and 61, the lower ends of which extend downward to provide supporting elements for the ends of the shaft, as shown at the points 62 and 63, and the upper ends of which extend upward beyond the upper end of the can and thence backward providing horizontal sections 64 and 65 by which the upper ends thereof are connected to a cross-bar 66 at the rear. The bar 66 is connected to the upper end of a vertically disposed member 67 at the rear of the stand, the lower end of the member 67 being mounted at the rear of the platform 52. In the stand of this design, the platform 52 is formed of structural angles providing a square section, as shown in Figure 10, and the upright members 60, 61 and 67 are positioned thereon with their lower ends welded thereto, as illustrated in Figure 13. In this design, the cover 68 of the can is provided with outwardly extending angle-shaped brackets 69 and 70 which are permanently secured to the edges of the cover by rivets, bolts or the like, and the outwardly extending ends thereof are provided with openings through which the brackets are slidably mounted on the uprights 60 and 61. With the garbage can stand mounted upon wheels, as illustrated particularly in Figures 11 and 12, the upper bar 66 may be used as a handle, and the stand with the can thereon may be rolled, similar to a hand truck, from one position to another.

It will be understood that the garbage can stand of this invention may be made in either of the designs illustrated, or the different parts of the designs may be combined or associated to form a suitable stand for supporting garbage cans of different types or designs. It will be understood that other modifications may be made in the designs or arrangement of the parts without departing from the spirit of the invention.

What is claimed is:

1. A supporting stand for a garbage can comprising a rectangular platform providing a support for a can, means supporting said platform at an elevated position above a supporting surface, three uprights extending upwardly from said platform at three corners of the latter and substantially perpendicular thereto, two of said uprights being disposed one at each of two diagonally-opposite corners of said platform, means rigidly inter-connecting the upper ends of said uprights, a cover disposed between said uprights, and means permanently connecting said cover to said two uprights for sliding movement toward and away from the upper end of the can, said platform comprising an angle iron structure and said uprights comprising metallic tubes welded adjacent their lower ends to corresponding corners of said platform.

2. A supporting stand for a garbage can comprising a rectangular platform, a shaft extending diagonally of said platform below the latter, brackets connecting said shaft to said platform, a wheel journaled on each end of said shaft, a post secured at its upper end to said platform at the corner of the latter most distant from said shaft and extending downwardly from said platform, said post and said wheels constituting a three point support for said platform, three uprights extending upwardly from said platform at three corners of the latter and substantially perpendicular to the platform, two of said uprights being disposed one at each of two diagonally opposite corners of said platform, means rigidly interconnecting the upper ends of said uprights and providing a handle for the supporting stand, a cover disposed between said uprights, and means permanently connecting said cover to said two uprights for sliding movement of said cover toward and away from a can supported on said platform.

IRA PIRTLE.

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