April 14, 1953 C. O. GRIMSLEY 2,634,933

GARBAGE CAN RACK

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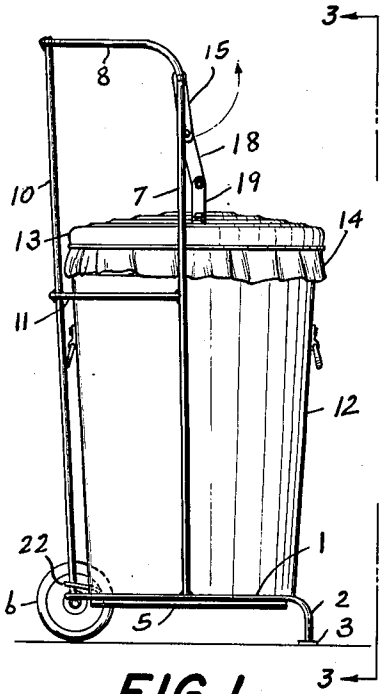


FIG. 1

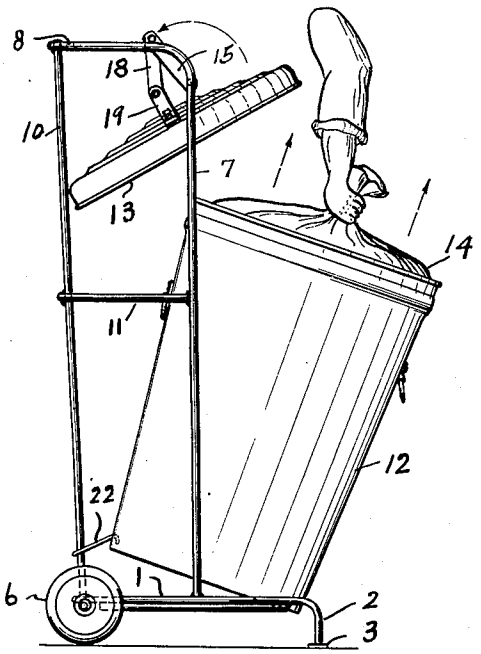


FIG. 2

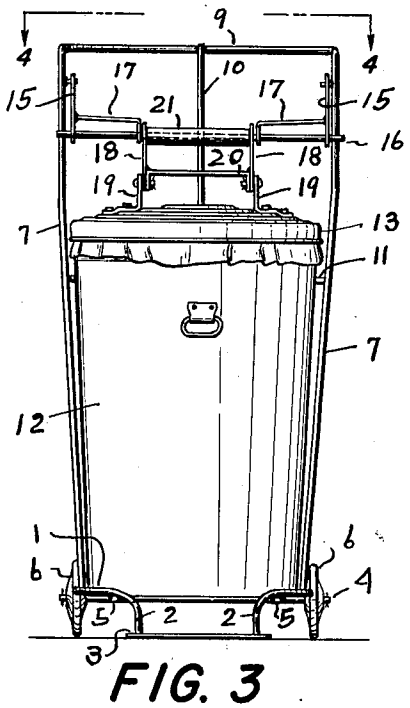


FIG. 3

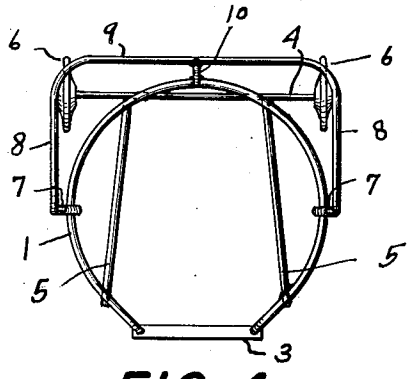


FIG. 4

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GARBAGE CAN RACK

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4 Claims. (Cl. 248—129)

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This invention relates to a garbage can rack.

An object of the invention is to provide a garbage can rack or holder shaped to receive any conventional type of garbage can or container and to maintain it in upright position, the rack being so constructed that the garbage can, or container, can be readily tipped forwardly for convenience in removing the garbage, or other contents from the container.

The invention herein described embodies certain improvements over that type of garbage can rack disclosed in my co-pending application filed November 20, 1945, under Serial No. 629,812, now Patent No. 2,466,416.

It is another object of the invention to provide a rack of the character described which is portable whereby the garbage may be readily moved from place to place and the garbage can or container secured against displacement from the rack during such movement of the rack.

The invention also embodies novel means for connecting the can cover to the rack whereby said cover may be readily swung into open position to allow the can to be emptied, or into closed and locked position on the can, said connecting means constituting an improvement over that type of cover connecting means disclosed in said pending application.

Other objects and advantages will be apparent from the following specification which is illustrated by the accompanying drawings, wherein:

Figure 1 is a side elevation of the complete assembly with the can cover locked in closed position.

Figure 2 is a side view showing the cover swung to open position and the can in position for removal of the garbage.

Figure 3 is a front elevation as viewed in the direction indicated by the line 3—3 of Figure 1 and

Figure 4 is a plan view of the rack viewed as indicated by the line 4—4 of Figure 3 but with the can, the can cover and the cover connecting means removed.

Referring now more particularly to the drawings wherein like numerals of reference designate the same parts in each of the figures, the numeral 1 designates the bottom retainer for the can which is substantially circular in form to surround the bottom of the can or container. However, the forward ends of this retainer 1 are downwardly turned forming the legs 2, 2 and the lower ends of these legs are connected by a horizontal footpiece 3.

There is a rear transverse axle 4 which is parallel with the footpiece and on which the rear portion of the retainer 1 rests.

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Underneath the retainer 1 there are the bottom supporting rods 5, 5 whose forward ends are secured to the retainer 1 on opposite sides of the footpiece 3 and whose rear ends are secured to the retainer, and the axle 4, at a common point, as best shown in Figure 4.

Rotatably mounted on the ends of the axle 4 there are the carrier wheels 6, 6 by means of which the rack and garbage receptacle may be moved from place to place.

The garbage container rests upon the supporting rods 5 and is retained against lateral movement by the retainer 1.

There is an upstanding frame which is preferably formed of a single rod which is shaped to form the upwardly diverging side members 7, 7 turned rearwardly at their upper ends forming the sides 8, 8 connected by the cross bar 9. The lower ends of the side members are secured to the retainer at opposite sides.

The frame is additionally strengthened by an upright rod 10 at the rear whose upper end is secured to the cross bar 9 and whose lower end is secured to the retainer 1 at the rear.

There is a substantially arcuate reinforcing rod 11 which is secured, at its forward ends to the side members 7 and which is also secured to the upright rod 10.

The parts hereinabove described as being secured together are preferably secured by welding.

The numeral 12 designates a garbage can, or container.

Any type of container may be used. It is preferably but not necessarily formed of sheet metal. It is equipped with a cover 13 which fits over the upper end of the container when in closed position.

Usually there will be a flexible sack, as 14, in the container to receive the garbage and by means of which the garbage can be removed from the container without removing the container from the rack as indicated in Figure 2. While the garbage container is not receiving garbage or is being moved to the place where it is to be emptied the upper margin of the sack is folded over the upper margin of the container and the cover 13 is fitted thereover, as shown in Figures 1 and 3, so as to keep the container tightly closed.

Above the can and pivotally connected at their rear ends to the sides 8 there are the outer side links 15, 15 and the forward ends of these side links may be welded to a cross rod 16 and there are the inwardly extended brackets 17, 17 whose outer ends are welded to the corresponding links 15 and whose inner ends are forwardly turned and welded to the cross rod 16. The ends of this cross rod 16 extend out slightly beyond the

side members 7 so as to contact therewith when the cover is in closed position, as shown in Figure 3, and so as to rest on the sides 8 when the cover is in open position, as shown in Figure 2.

There are also the inner side links 18, 18 which are pivotally mounted, at one end, on the cross-rod 16 and these inner links 18 are pivotally connected, at their other ends, to the spaced arms 19, 19 which are secured to, and upstand from, the cover 13. These links 18 are braced by the cross brace 20 whose ends are welded to said corresponding links.

On the cross rod 16 between the inner links 18 there is a grip member 21 which is rotatable with respect to the rod on which it is mounted and whereby the cover 13 may be conveniently lifted or lowered.

The can or other container 12 may remain permanently on the rack with the flexible sack 14 to receive the garbage and when it is desired to dispose of the garbage in the container the rack, with the container thereon, may be readily moved to a convenient place for the garbage collector to pick up the garbage.

In removing the garbage from the container the cover 13 is lifted up and swung rearwardly into the position indicated in Figure 2 with the extended ends of the cross rod 16 resting on the sides 8 of the frame. The can or container 12 may then be tipped forwardly and the sack or container containing the garbage lifted out.

In order to prevent the container 12 from falling forwardly there is provided a retaining link 22 whose forward end is formed into a hook which engages through an opening in the container at the bottom as indicated in Figure 2. The other end of this hook has a slidable connection with the upright rod 10 so as to move upwardly when the container is tipped forwardly and to move downwardly when the container is restored to upright position. The container is thus retained on the rack.

When the cover 13 is swung forwardly and downwardly to closed position, as indicated in Figure 1, the links 15, 18 and the arms 19 assume substantially a straight line relation so as to firmly hold the cover 13 in closed position.

The drawings and description are illustrative merely while the broad principle of the invention will be described by the appended claims.

What I claim is:

1. A garbage can rack comprising, a bottom retainer substantially annular in form and having forward ends which are downwardly turned forming legs, a horizontal footpiece connecting said legs, a transverse axle at the rear of and secured to the retainer, bottom supporting rods underneath the retainer whose forward ends are secured to the retainer on opposite sides of the footpiece and whose rear ends are secured to the retainer, carrier wheels mounted on the axle, an upstanding frame of substantially inverted U-shape whose sides are secured at their lower ends to the retainer, the upper end of the frame being turned rearwardly forming sides and a cross bar, an upright rod approximately midway between the sides of the frame whose upper end is secured to the cross bar and whose lower end is secured to the retainer.

2. A garbage can rack comprising, a bottom retainer substantially annular in form and having forward ends which are downwardly turned forming legs, a horizontal footpiece connecting said legs, a transverse axle at the rear of and secured to the retainer, bottom supporting rods underneath the retainer whose forward ends are secured to the retainer on opposite sides of the footpiece and whose rear ends are secured to the retainer, carrier wheels mounted on the axle, an upstanding frame of substantially inverted U-shape whose sides are secured at their lower ends to the retainer, the upper end of the frame being turned rearwardly forming sides and a cross bar, an upright rod approximately midway between the sides of the frame whose upper end is secured to the cross bar and whose lower end is secured to the retainer, a substantially arcuate reinforcing rod secured at its forward ends to the side members and also secured to said upright rod.

3. A garbage can rack comprising, a bottom retainer substantially annular in form and having forward ends which are downwardly turned forming supporting legs, a transverse axle at the rear of and secured to the retainer, bottom supporting rods underneath the retainer whose forward ends are secured to the retainer on opposite sides of the legs and whose rear ends are secured to the retainer, carrier wheels mounted on the axle, an upstanding frame of substantially inverted U-shape whose sides are secured at their lower ends to the retainer, the upper end of the frame being turned rearwardly forming sides and a cross bar, an upright rod whose upper end is secured to the cross bar and whose lower end is secured to the retainer, link means hinged together and pivotally connected to the frame and adapted to be connected to a can cover to allow the cover to move to position on the can or to elevated, or open, position, said means including a cross rod whose ends are adapted to rest on the rearwardly turned sides of the frame to support the cover in open position.

4. A garbage can rack comprising, a bottom retainer substantially annular in form and having forward ends which are downwardly turned forming supporting legs, a transverse axle at the rear of and secured to the retainer, bottom supporting rods underneath the retainer and secured thereto, carrier wheels mounted on the axle, an upstanding frame whose lower end is secured to the retainer, the upper end of the frame being turned rearwardly forming sides and a cross bar, an upright rod whose upper end is secured to the cross bar and whose lower end is secured to the retainer, link means hinged together and pivotally connected to the frame and adapted to be connected to a can cover to allow the cover to move to position on the can or to elevated, or open, position, said means having side supports adapted to rest on the rearwardly turned sides of the frame to support the cover in open position.

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References Cited in the file of this patent

UNITED STATES PATENTS

Number	Name	Date
453,856	Christy et al.	June 9, 1891
531,916	Fillman	Jan. 1, 1895
899,031	Davis	Sept. 22, 1908
1,131,774	Davis	Mar. 16, 1915
1,199,531	Davis	Sept. 26, 1916
1,495,477	Gammeter	May 27, 1924
1,544,356	Spaeth	June 30, 1925
1,713,095	Scheffer	May 14, 1929
1,722,193	Brandon	July 23, 1929
1,845,883	Mandel	Feb. 16, 1932
2,466,416	Grimsley	Apr. 5, 1949