July 7, 1936. J. F. GEIBEL 2,046,777

GARBAGE CAN

Filed June 15, 1931

Fig. 1.

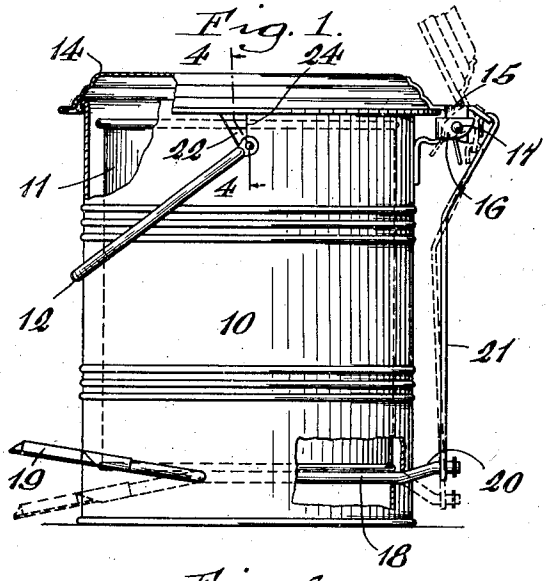


Fig. 2.

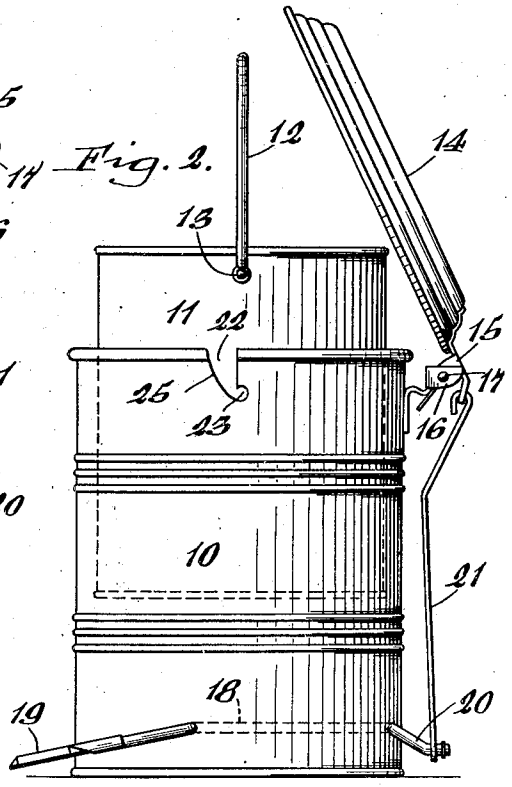


Fig. 3.

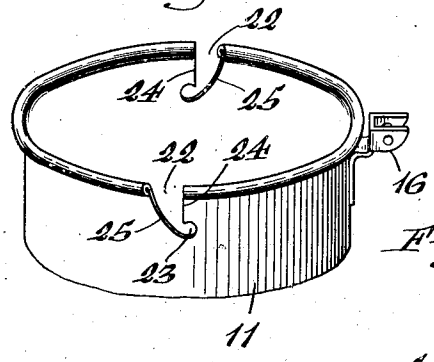


Fig. 4.

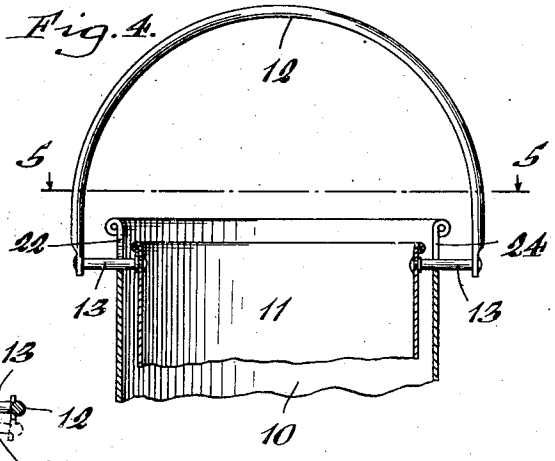
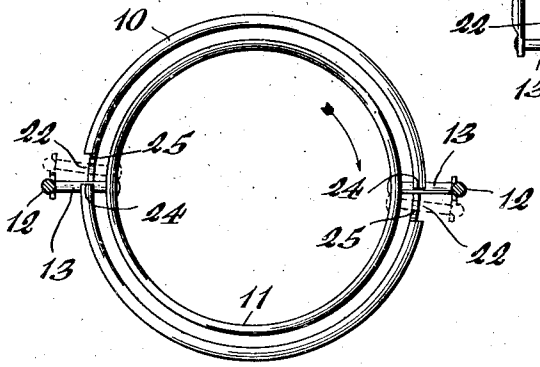


Fig. 5.



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UNITED STATES PATENT OFFICE

2,046,777

GARBAGE CAN

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Application June 15, 1931, Serial No. 544,401

9 Claims. (Cl. 220—17)

This invention relates generally to sanitary waste cans or garbage receptacles, but more particularly to a handle construction for receptacles of the type including an outer can-body or frame and an inner can-body or pail and wherein a swinging cover is employed for covering the inner or garbage can.

The principal object of the invention is to provide a handle construction for receptacles of this character which is designed to permit the carrying of both the outer can-body and inner pail as a unit while the cover is closed and which will also permit of the inner pail being removed from the outer can-body and carried by the utilization of the same handle.

Another object of the invention is the provision of a dual-purpose handle which is simple, compact and inexpensive in construction, which is so constructed and arranged as to permit its ready use for the purposes designed, and which is durable and not liable to get out of order.

In the accompanying drawing:—

Figure 1 is a side elevation, partly in section, of a receptacle constructed in accordance with my invention, the parts being shown by full lines in their normal position. Figure 2 is a side elevation of the receptacle showing the cover elevated and the inner pail being removed from the outer can-body. Figure 3 is a perspective view of the upper portion of the outer can-body. Figure 4 is a fragmentary vertical section taken substantially in the plane of line 4—4, Figure 1. Figure 5 is a horizontal section taken on line 5—5, Figure 4.

Similar characters of reference indicate corresponding parts throughout the several views.

In the preferred embodiment of the invention shown in the drawing, the same comprises an outer can-body, a supporting frame, or container 10 of cylindrical form, open at its upper end and made of sheet metal or other appropriate material. Removably contained within this can-body is a garbage pail or receptacle 11 having a bail or handle 12 pivoted thereto adjacent its upper end. As shown in Figures 4 and 5, this bail is connected at its free or opposing ends to pivot pins 13 projecting from diametrically opposite sides of the pail 11, such pins being radially-disposed and preferably of a length to extend beyond the walls of the outer can-body 10 and being swiveled to the inner pail so as to rotate or turn freely therein. If desired, however, these pivot pins may be fixed to the inner pail.

The upper end of the can-body 10 is provided with a vertically-swinging cover 14, pivotally connected by a strap 15 to a bracket 16 secured to the rear side of the can-body and carrying a hinge pintle 17 to which said cover-strap is connected.

Any suitable means may be employed for raising the cover to its open position, that shown in the drawing being preferable and consisting of a substantially horizontal rock shaft 18 located at the lower end of the can-body 10 and terminating at its front end in a foot pedal 19 and at its rear end in a crank arm 20 connected by a link 21 with the cover-strap 17 in the manner shown in Figures 1 and 2. When the foot pedal is depressed, the shaft 18 is oscillated in a direction to cause its crank 20 to pull downwardly on the link 21 and open the cover, as seen in Figure 2 and by dotted lines in Figure 1. With the cover in the open position, the inner pail or refuse receptacle 11 may be readily removed by swinging the handle 12 to the substantially upright position shown in Figure 2.

In order to permit of conveniently carrying both the outer can-body 10 and inner pail 11 as a unit from place to place, I have so designed the handle 12 that it can be readily used for this purpose or for the purpose of carrying the inner pail independently of the outer container, as for example, when it is desired to remove the same from such container and empty the contents of the pail into an out-door receptacle or other place to receive it. To this end, I provide the upper end of the outer can-body 10 in its diametrically opposite sides with upwardly-opening recesses or notches 22, which are adapted to receive the pivot pins 13 of the handle 12 in the lowered position of the inner pail in the can-body, as seen in Figure 4. The bottoms or lower ends of these notches terminate in laterally offset locking portions or seats 23 with which the handle-pins 13 are adapted to interlock and in such position prevent vertical displacement or removal of the inner pail from the outer can-body. In other words, in this position the inner pail is interlocked through the medium of the coupling pins 13 and the notch-seats 23 with the outer can-body, thereby enabling the inner pail and the outer can-body to be reliably coupled together and to be carried as a unit by the handle 12. As seen in Figure 3, the seats 23 of the respective notches face in opposite directions so that a slight turning of the inner pail relative to the can-body is necessary to interlock or release the pins 13 with and from such seats, respectively. It will also be noted that the edges 24 of the notches 22, beneath which the undercut seats 23 are located, are substantially upright, while the opposing

edges 25 of the notches slope downwardly toward the seats and thereby assist in guiding and directing the handle-pins 13 into their proper engaged position with said seats when the pail is dropped into the can body with its pins in register with the notches.

In the normal position of the parts, shown by full lines in Figure 1, the handle 12 assumes a position partially embracing the front side of the outer can-body 10 in a more or less downwardly inclined manner.

In removing the inner pail from the outer pail, the cover 14 is raised by the foot pedal 19 and the inner pail given a partial turn relative to the outer can-body to release the pins 13 from the notch-seats 23, as indicated by dotted lines in Figure 5, after which the inner pail 11 can be readily lifted by the handle 12 from the can-body 10. In carrying the inner pail and outer can-body as a unit, the cover is allowed to remain closed and the handle 12 is raised to an upright position, the handle-pins 13 remaining interlocked with the seats 23 to prevent separation of the parts.

I claim as my invention:—

1. A device of the character described, comprising relatively separable, telescopically arranged inner and outer can-bodies, one of said can-bodies having a handle permanently mounted thereon and the other having a cover hinged thereto, and complementary laterally-interlocking pin and slot means applied to contiguous portions of the can-bodies below their upper ends and below said cover for releasably connecting them against relative axial displacement, whereby said can-bodies may be jointly carried as a unit by said handle, said pin means constituting pivots for the handle and said slot means including offset portions in the circular plane of its can-body.

2. A device of the character described, comprising a supporting frame, a waste receptacle removably arranged therein and free to turn relatively thereto and having a handle attached thereto, and cooperating pin and slot means for releasably interlocking the handle to said frame by a relative turning of the receptacle in the frame whereby the latter and the receptacle are coupled against relative vertical displacement and may be carried as a unit.

3. A device of the character described, comprising a supporting frame open at its upper end and having substantially hook-shaped recesses therein, a waste receptacle removably arranged in said frame and having a handle attached thereto, and projections on said receptacle arranged to interlock with said frame-recesses.

4. A device of the character described, comprising a supporting frame open at its upper end, a cover hinged thereto, said frame having recesses in its upper end disposed forwardly of the cover-hinge and including laterally offset seats, and a waste receptacle removably arranged in said frame to be closed by said cover and having a handle attached thereto, and coupling pins on said receptacle arranged to interlock with the offset seats of said frame-recesses.

5. A device of the character described, comprising a supporting frame open at its upper end and having recesses therein terminating at their bottoms in laterally offset seats, and a waste receptacle removably arranged in said frame and having a handle connected thereto, said handle having portions arranged for interlocking engagement with said recess-seats, whereby the frame and the receptacle may be carried as a unit by said handle.

6. A device of the character described, comprising a supporting frame open at its upper end and having recesses in its diametrically opposite sides, and a waste receptacle removably arranged in said frame and having a handle attached thereto, said handle including attaching pins projecting from the receptacle for releasable interlocking engagement with said recesses to prevent relative vertical displacement of the frame and said receptacle, said pins being engaged with and released from their recesses by a relative turning movement of the frame and the receptacle.

7. A device of the character described, comprising a supporting frame open at its upper end and having upwardly-opening notches in its diametrically opposite sides terminating at their bottom in offset seats, each notch having a sloping edge merging into its corresponding seat and a companion substantially upright edge rising from the mouth of said seat, and a waste receptacle removably arranged in said frame and having a swinging handle attached thereto, said handle including pivot pins projecting radially from the receptacle for releasable interlocking engagement with said notch-seats to prevent vertical displacement of the frame and said receptacle, said pins being engaged with and released from their notches by a relative turning movement of the frame and the receptacle and the sloping edges of said notches constituting guides for directing the pins into engagement with their respective notch-seats.

8. In combination, an outer container, an inner container nesting within said outer container and having a pivoted carrying means comprising a bail having pivot connections in proximity to the upper edge of said inner container, said outer container having substantially hook-shaped recesses in its upper edges to receive the pivoted connections of said bail to interlock the inner container with the outer container against relative vertical displacement.

9. A device of the character described, comprising an outer can-body, a cover hinged thereto, a waste receptacle removably arranged in said can-body, a handle connected to said receptacle and arranged to partially embrace the can-body in one position thereof, and complementary means applied to said can-body and said receptacle below the cover for releasably connecting them against relative vertical displacement, said means including substantially hook-shaped recesses in the upper edge of the can-body and pins projecting from the receptacle and constituting handle-pivots for interlocking engagement with said recesses, said handle serving as a means for removing the receptacle from the can-body and carrying it independently of the can-body and as a means for carrying said parts as a unit.

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