Oct. 27, 1931. G. R. LE SAUVAGE 1,828,741

WASTE CAN

Filed July 19, 1930 2 Sheets-Sheet 1

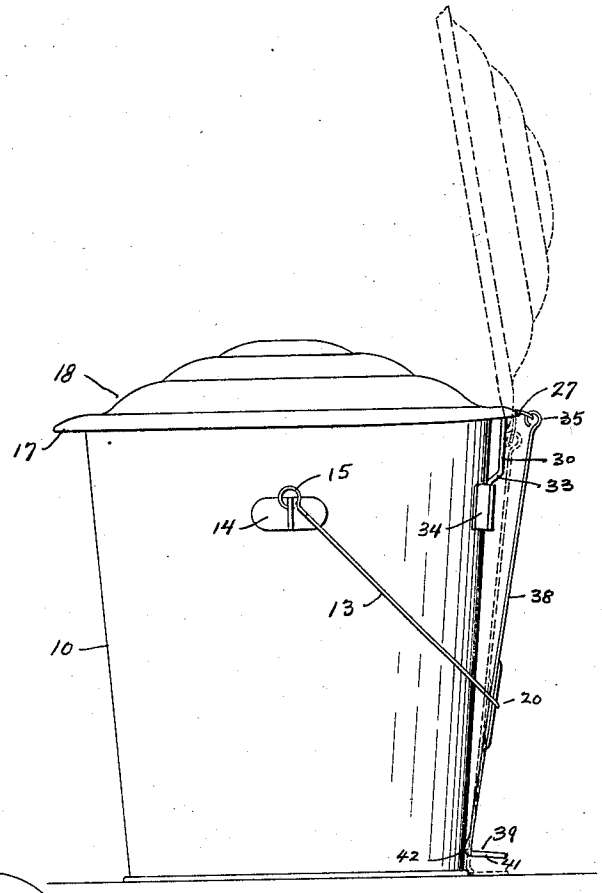


Fig. 1.

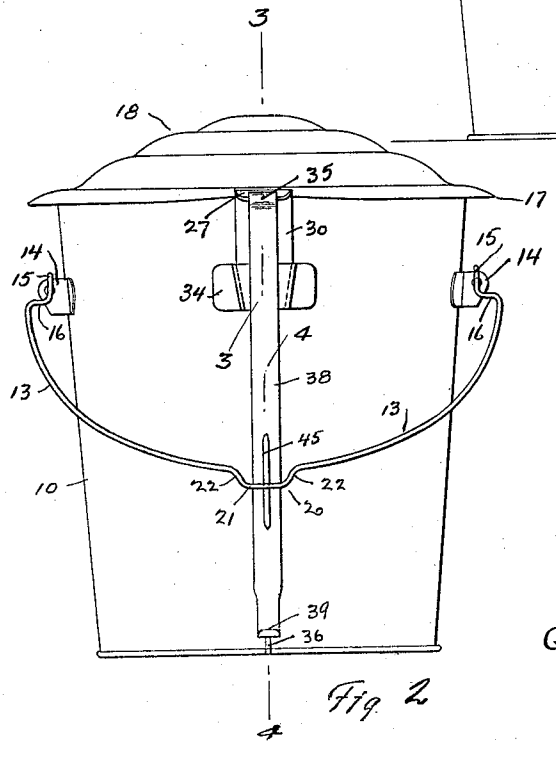


Fig. 2.

INVENTOR
GEORGE ROSS LESAUVAGE
BY J. W. Ellis

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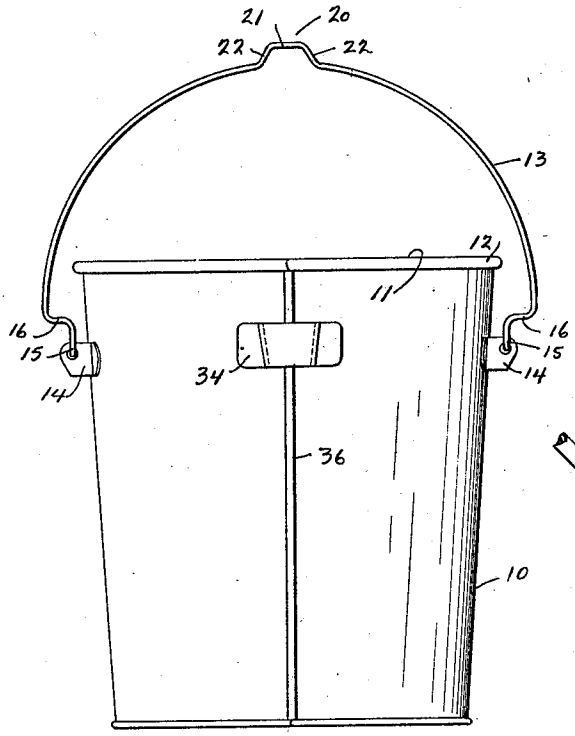


Fig. 6.

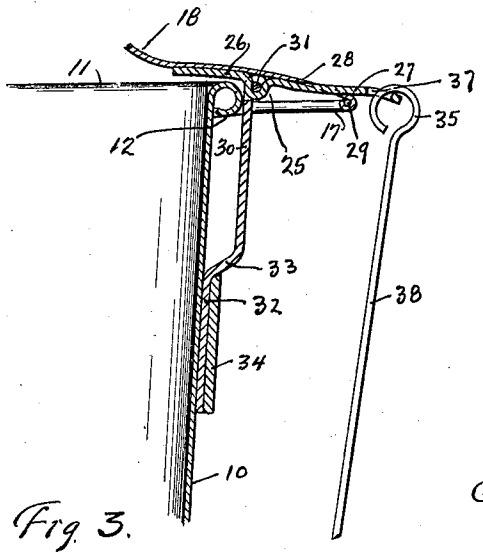


Fig. 3.

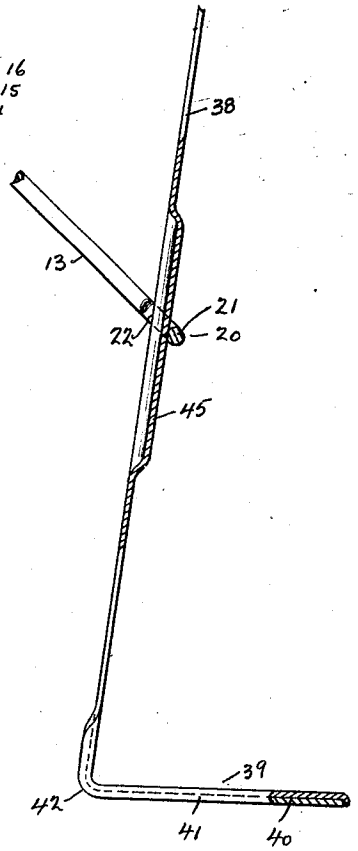


Fig. 4.

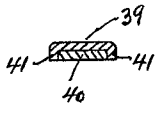


Fig. 5.

INVENTOR
GEORGE ROSS LESAUVAGE
BY J. W. Ellis

Patented Oct. 27, 1931 1,828,741

UNITED STATES PATENT OFFICE

GEORGE ROSS LE SAUVAGE, OF BUFFALO, NEW YORK

WASTE CAN

Application filed July 19, 1930. Serial No. 469,150.

My invention relates in general to waste cans, and particularly to such cans as are used for garbage and other waste material.

The principal object of my invention has been to provide a device of this nature in which a single can having a detachable, pivotally mounted cover shall be used instead of the customary type of device in which an inner and outer can are employed.

Another object has been to provide a device having a foot controlled cover operating means carried by and suspended from the cover, whereby when the cover is removed, the operating means is also removed with it.

Another object has been to provide an operating arm carried by the cover which shall be extended through the rim of the cover above the bead thereof, thereby strengthening the structure.

A further object has been to so form the cover that its rim is somewhat flattened at the point where the operating means are secured, whereby the cover may be permitted to open to its maximum.

A further object has been to provide the attaching butt of the hinge member to the can by means of a socket member attached to the can, and to so form the butt that it shall engage with the socket member to limit its downward movement.

Another object has been to provide an operating rod having its lower end so formed as to provide a reinforced foot pedal.

A further object has been to provide a bail for the can so formed that when in its lowermost position it will provide a guide for the operating rod to prevent excessive lateral movement thereof.

Moreover, the operating means of my device may be so arranged that it comes opposite the longitudinal seam on the can, whereby the can is reinforced against the strain placed upon it by the operation of the opening device.

Moreover, my invention provides an inexpensive, sanitary waste can provided with a foot operated cover for keeping the same closed at all times, but which may be easily converted into an ordinary can or pail, when it has become filled, and its contents conveyed to the desired place and conveniently emptied, after which it may be thoroughly cleaned in as efficient manner as an ordinary pail.

The above objects and advantages have been accomplished by the device shown in the accompanying drawings, of which:

Fig. 1 is a side elevation of my complete device.

Fig. 2 is a rear view thereof.

Fig. 3 is an enlarged, fragmentary, sectional view, taken on line 3—3 of Fig. 2.

Fig. 4 is an enlarged, fragmentary, sectional view of the operating rod, taken on line 4—4 of Fig. 2.

Fig. 5 is a sectional view of the operating rod pedal and is taken on line 5—5 of Fig. 4.

Fig. 6 is an exterior view of the can with the cover and its operating means removed, showing the can ready to be lifted by its bail.

As shown in the drawings, my device comprises a single receptacle 10, preferably of tapered formation, so that several of the receptacles may be compactly nested for shipment or storage. The receptacle is provided with a smooth interior surface, so that it may be conveniently cleaned and easily kept in a sanitary condition. The upper edge 11 of the can is unbroken in its contour and is provided with the usual bead 12. The receptacle is provided with a bail 13 which is pivotally attached to ears 14 carried thereby. The bail is provided with open links 15 at each end for pivotal engagement with the ears 14 in the customary manner. Each end of the bail is preferably provided with an offset portion 16, so that the bail will clear the bead 12 of the receptacle and also the outer rim 17 of the cover 18 of the device. The bail 13 is curved so as to provide a convenient handle for lifting and carrying the receptacle, and it is formed at its center with a bearing or guiding portion 20 for the operating rod, to be hereinafter described. This bearing portion has a straight portion 21 connected to the curved part of the bail at each end by means of inclined portions 22, to be hereinafter described.

The cover 18 of my device is detachably connected to the receptacle 10 by means of a hinge member 25. The stationary butt 26 of

the hinge member is permanently secured to the under side of the cover 18 and extends outwardly across the rim portion 17. This butt is provided with a rearwardly extending operating arm 27 which projects through a slot 28 formed in the rim portion above the bead 29 thereof. The movable butt 30 is pivotally attached at 31 to the stationary butt 26 and extends downwardly along the face of the receptacle 10. This butt is formed with a socket portion 32 which is connected to the butt proper by means of an offset portion 33. The socket portion 32 fits into a socket member 34 carried by the receptacle and arranged at such a distance below the bead 12 thereof that the movable butt may be moved upwardly and its socket member 32 disengaged from the socket 34 before the offset portion 33 contacts with the bead 12. The socket portion 32 may be tapered, as shown in the drawings, and set into a correspondingly tapered recess formed in the socket member 34, or it may be straight sided, in which latter case the offset portion 33 will form a stop for the downward movement of the movable butt. Even when the socket portion 32 is tapered, it is preferable that the offset portion act as a stop to prevent the socket portion from becoming wedged into the socket 34. The socket portion is preferably arranged so that it straddles the longitudinal seam 36 of the receptacle, whereby this reinforced portion of the can serves to more readily resist the bending moment produced by the operation of the cover of the device.

The outer end of the arm 27 of the stationary butt 26 is provided with a rectangularly-shaped slot 37 with which the upper end of the operating rod 38 is engageable. The upper end of the rod is provided with a ring 35 which serves to pivotally connect the operating rod with the operating arm 27. The rod is thus free to swing from and be supported by the operating arm. The operating rod 38 is preferably of flat material so that it normally resists sidewise movement. The rod is provided at its lower end with a foot pedal 39. This pedal is preferably formed by turning a portion 40 of the material upon itself which is narrower than the major portion of the rod, and then bending the upper portion of the material down upon the return bend portion by forming flanges 41, whereby the return bend portion is securely held in place and the pedal portion 39 made stiff and rigid. The flanges 41 extend around the angle bend 42 and for some distance up along the side edges of the rod 38, whereby the material in the rod at the angle is stiffened so as to resist bending when the pedal is being operated. The parts of my device are so proportioned that when the cover 18 has been opened to its maximum, the pedal 39 will strike the surface supporting the can, and thus prevent the can from being tipped by a too vigorous or continued operation of the pedal.

When the bail 13 is in its lowermost position, as shown in Figs. 1, 2, and 4, it will rest against the side of the can, and if it is arranged on the outside of the operating rod 38, as shown in these figures, the guide portion 20 will engage with the lower part of the operating rod, providing a bearing or guide for it, its inclined side portions 22 serving to centralize the rod. The bail will thus prevent side swaying of the lower end of the operating rod and serve to keep its pedal 39 steady at all times. The operating rod 38 is provided with a raised bead 45 extended longitudinally over the portion of the rod which engages with the guide or bearing portion 20 of the bail, whereby line contact will be provided between the rod and the bail, thus preventing the enameling or painting from being scraped off of the rod by continuous operation.

The cover 18 of my device may be of any suitable style, but preferably has a relatively wide and overhanging rim portion 17. The rim portion 17 at the rear of the cover or at the place where the operating mechanism is located is preferably turned up slightly as shown in Figs. 1 and 2, which permits the cover to be opened to its maximum as well as providing a stop therefor.

Obviously, while my device is being used for the collection of garbage, the cover with its operating mechanism is in place, and each time a portion of waste material is to be placed into the can, the foot of the operator is placed upon the pedal 39 which lowers the operating rod 35 and through the medium of the operating arm 27 raises the cover 18. Just as soon as the foot is removed from the pedal, the cover, of course, will fall and be retained in its closed position by means of gravity. During such operation, and while the cover is still in position, the bail 13 serves as a guide for the operating rod, as hereinbefore described. When it is desired or it becomes necessary to empty the receptacle, the cover with its operating mechanism is pulled upwardly which disengages the socket portion 32 of the stationary butt 30 of the hinge member 25, whereby the cover with its operating mechanism may be removed from the can and laid aside until the can has been emptied. The operating rod 38 will, of course, become easily disengaged from the guide portion 20 of the bail by the upward movement of the operating rod. The bail is now moved to the position shown in Fig. 6 whereby the receptacle may be easily handled.

Obviously, some modifications of the details herein shown and described may be made without departing from the spirit of my invention or the scope of the appended claims, and I do not, therefore, wish to be limited to the exact embodiment herein shown

and described, the form shown being merely a preferred embodiment thereof.

Having thus described my invention, what I claim is:

1. A waste can comprising a single receptacle, a hinged cover for the receptacle, means for detachably securing the cover to the receptacle, means for actuating the cover, and a bail for the receptacle, the bail being engageable with the actuating means for guiding the same.

2. A waste can comprising a single receptacle, a hinged cover for the receptacle, means for detachably securing the cover to the receptacle, means for actuating the cover, and a bail for the receptacle, the bail being formed with a bearing portion for guiding the operating means.

3. A waste can comprising a single receptacle, a hinged cover for the receptacle, means for detachably securing the cover to the receptacle, means for actuating the cover, and a bail for the receptacle, the bail being formed with a bearing portion having inclined side portions for engagement with the operating means to guide the same.

4. A waste can comprising a single receptacle, a cover for the receptacle, detachable means carried by the cover for pivotally connecting it to the receptacle, comprising a stationary butt secured to the cover and having a rearwardly extending operating arm passing through the rim of the cover above the bead thereof, a movable butt, the movable butt being detachably connected to the receptacle by means of a socket member, and an operating rod pivotally attached at its upper end to the operating arm and provided at its lower end with a pedal.

5. A waste can comprising a single receptacle, a cover for the receptacle, detachable means carried by the cover for pivotally connecting it to the receptacle, comprising a stationary butt secured to the cover and having a rearwardly extending operating arm passing through the rim of the cover, a movable butt, the movable butt being detachably connected to the receptacle by means of a socket member, an operating rod pivotally attached at its upper end to the operating arm and provided at its lower end with a pedal, and a bail for the receptacle, the bail forming a bearing for guiding the operating rod.

6. A waste can comprising a single receptacle, a cover for the receptacle, detachable means carried by the cover for pivotally connecting it to the receptacle, comprising a stationary butt secured to the cover and having a rearwardly extending operating arm passing though the rim of the cover, a movable butt provided with an offset portion, and a socket member carried by the receptacle for receiving the movable butt and engaging with its offset portion.

7. A waste can comprising a single receptacle, a hinged cover for the receptacle, means carried by the cover for detachably securing the hinged cover to the receptacle, cover actuating means comprising an operating rod, suspended from the cover, and a bail for the receptacle, the bail being formed with a bearing portion for guiding the operating rod, and the operating rod being formed with a longitudinal ridge for engagement with the bearing portion of the bail.

8. A waste can comprising a single receptacle, a hinged cover for the receptacle, means carried by the cover for detachably securing the hinged cover to the receptacle, and cover actuating means comprising an operating rod suspended from the cover, the rod having a foot pedal at its lower end, the pedal being formed by a reinforced portion and reinforcing flanges engaging such portion for holding it in place.

9. A waste can comprising a single receptacle, a hinged cover for said can, means carried by the cover for detachably securing it to the receptacle, the rim of the cover being bent up slightly at the point where the hinge is provided so as to permit maximum opening of the cover, and cover actuating means suspended from the cover.

In testimony whereof I have hereunto signed my name.

GEORGE ROSS LE SAUVAGE.