May 30, 1933. W. C. STEIN 1,911,724

REFUSE CONTAINER

Filed May 13, 1931

Fig. 1.

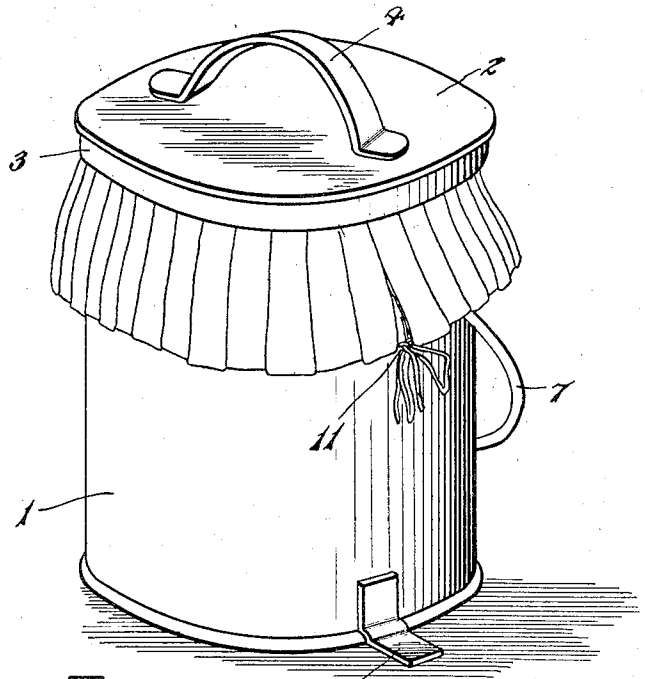


Fig. 2.

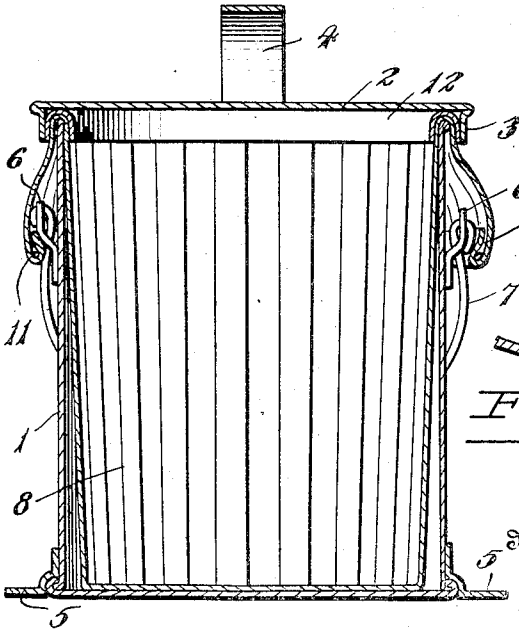


Fig. 3.

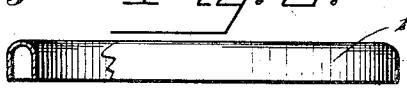
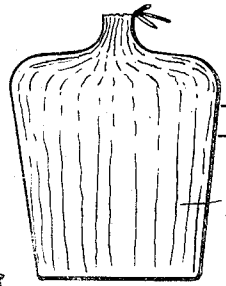


Fig. 5.



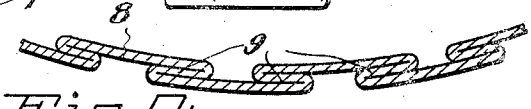


Fig. 4.

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UNITED STATES PATENT OFFICE

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REFUSE CONTAINER

Application filed May 13, 1931. Serial No. 537,098.

This invention relates to an improved container for garbage and other refuse. At the present time it is customary to place garbage and other refuse in a metal container or can having a lid for covering the same and a handle by means of which it may be easily lifted when the can is to be emptied. The refuse is placed directly in the can and after the can has been used for a short while, it becomes dirty and has a bad odor. This is particularly true if the can is not thoroughly washed and particles of refuse adhere to the can.

Therefore one object of the invention is to provide a container for garbage and other refuse having an inner container into which the refuse is to be placed and which may be removed as a unit from the main receptacle.

Another object of the invention is to provide an inner receptacle formed of paper which will easily burn and thereby facilitate disposal of garbage or other refuse when placed in an incinerator plant.

Another object of the invention is to so form the inner container of paper that when it is placed in the main receptacle, its upper portion may be turned downwardly about the same and to also permit this upper portion to be drawn upwardly and its open end secured in a closed position by a draw string before the inner receptacle is removed from the main can, thereby causing contents of the inner receptacle or paper bag to be confined therein.

Another object of the invention is to provide a protecting ring adapted to be set in place after the paper bag has been placed in the main receptacle, thereby protecting the portion of the bag which engages over walls of the main receptacle and permitting the cover for the can to be removed and applied a number of times without tearing or otherwise damaging the inner container.

The invention is illustrated in the accompanying drawing wherein

Figure 1 is a perspective view of the improved garbage container,

Figure 2 is a vertical sectional view through the same,

Figure 3 is a view of the reinforcing ring shown partially in side elevation and partially in section,

Figure 4 is a fragmentary sectional view taken horizontally through the inner receptacle, and

Figure 5 is a side elevation of the inner receptacle or paper bag when removed from the main receptacle.

The improved refuse container has an outer receptacle or can 1 which may be formed of strong galvanized iron or any other desired material. It may be of any depth and diameter desired and is provided with a cover 2 by means of which its open upper end may be closed. A depending annular flange 3 is formed on the cover and a handle 4 is provided so that the cover may be easily removed or applied to the can. There has also been provided strips 5 located at opposite sides of the can at its bottom upon which a person may place his feet when removing the cover.

At opposite sides of the can near its upper end are mounted ears 6 engaged by a bail or handle 7 by means of which the can may be lifted and carried from one place to another. The bail or handle 7 is swung downwardly to a lowered position as shown in Figures 1 and 2 when the can is in position for use. In order to protect the interior of the can, and prevent it from becoming fouled by garbage or other refuse, there has been provided an inner receptacle 8 which is preferably formed of thick paper. This inner receptacle is formed from a blank which is crimped vertically as shown at 9 thereby causing it to assume the shape of a paper bag having an open upper end and the inner receptacle is preferably treated with paraffin in order to add to its strength and also make it water proof.

At its open upper end the walls of the bag or inner receptacle are folded downwardly to form a depending outwardly flared skirt and the lower edge of the skirt folded and secured to form a circumferentially extending pocket 10 through which extends a draw string 11. By this arrangement the paper bag may be placed in the outer receptacle or can 1 and since it is of greater depth than the can and its walls are crimped, its

upper portion may be folded downwardly about the upper portion of the can and the draw string tightened to secure the down-turned portion or skirt securely about the can.

By referring to Figure 2 it will be seen that when the inner receptacle is so secured the skirt covers the ears 6 and portions of the bail or handle 7, thereby forming an apron or shield for the same. This paper bag tapers towards its lower end and therefore it may be easily thrust downwardly to its proper position in the outer can and also it may be easily withdrawn. In order to protect the portions of the bag which are engaged over the upper edge of the can, there has been provided a ring 12 which is also preferably formed of strong metal such as galvanized iron.

This ring is U-shaped in cross section and of such dimensions that it will fit snugly into place as shown in Figure 2. The ring serves to reinforce the skirt and portion of the bag which engages over the upper edge of the can and therefore the cover 2 may be removed when necessary and replaced without danger of tearing the bag. When the refuse is to be removed from the can, the cover 3 is first removed and the reinforcing ring then drawn upwardly out of place.

By placing his feet upon the strips 5, the garbage collector may easily detach the ring. After the ring has been removed, the down-turned portion or skirt of the paper bag is drawn upwardly and the draw string then tightened to close the open upper end of the bag. The upper portion of the bag may be twisted into a tight mass and the draw string tied firmly about it, thereby forming a hand-hold which may be easily grasped in order to lift the paper bag out of the main can and carry it to a wagon in which the bag will be placed while still tied. A new bag is then placed in the garbage pail or main receptacle and after the ring 12 is applied, the cover replaced. When the incinerator plant is reached, the bags are removed from the collecting wagon while still closed, and since they are formed of paper, treated with paraffin they will burn very easily. By having the paper bag of appreciably greater length than the depth of the can the bag may be filled to the top of the can and still have its upper portion drawn upwardly and tied. The crimps may be glued to each other for a sufficient distance to cause a filled bag to retain its shape when removed from the can as shown in Figure 5 thereby preventing danger of the bag bulging and tearing.

What is claimed is:

1. A refuse container comprising a main receptacle, an inner receptacle formed of pliant material and fitting into the main receptacle, said inner receptacle being of greater depth than the main receptacle and adapted to have its walls folded outwardly and downwardly about the upper portion of the main receptacle to form a depending outwardly flared skirt having a terminal circumferential pocket, an annular protecting band fitting upon walls of the outer receptacle and overturned portion of the inner receptacle, a cover fitting upon said band, and a draw string seated in said pocket for clamping the skirt around the main receptacle and closing the top of the inner receptacle when the latter is removed from the main receptacle.

2. A refuse container comprising a main receptacle, an inner receptacle formed of pliant material and fitting into the main receptacle, said inner receptacle being of greater depth than the main receptacle and adapted to have its walls folded outwardly and downwardly about the upper portion of the main receptacle to form a depending outwardly flared skirt the lower edge of which is folded to form a pocket, an annular protecting band fitting upon walls of the outer receptacle and overturned portion of the inner receptacle and being of an inverted U-shape in cross section for straddling engagement therewith, a cover resting upon said band and having a depending annular flange fitting about the band, and a draw string seated in said pocket for clamping the skirt around the outer wall of the main receptacle and closing the top of the inner receptacle when the latter is removed from the main receptacle.

3. A refuse container comprising a main receptacle having bail-engaging ears, an inner receptacle formed of pliant material and fitting into the main receptacle, said inner receptacle being of greater depth than the main receptacle and adapted to have its walls folded outwardly and downwardly about the upper portion of the main receptacle to form a depending outwardly flared skirt extending over the bail-engaging ears and having a terminal circumferential pocket, and a draw string seated in said pocket for clamping the skirt around the main receptacle and closing the top of the inner receptacle when the latter is removed from the main receptacle.

In testimony whereof I affix my signature.

WILLIAM C. STEIN.