

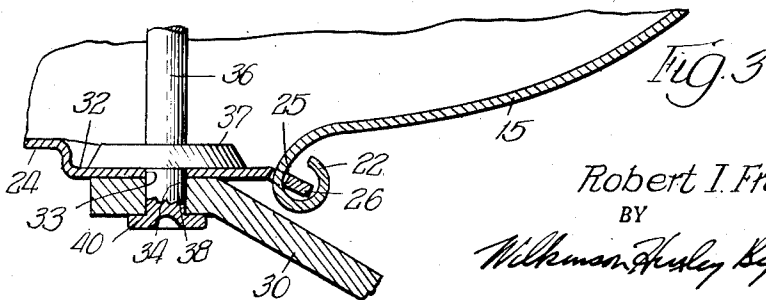
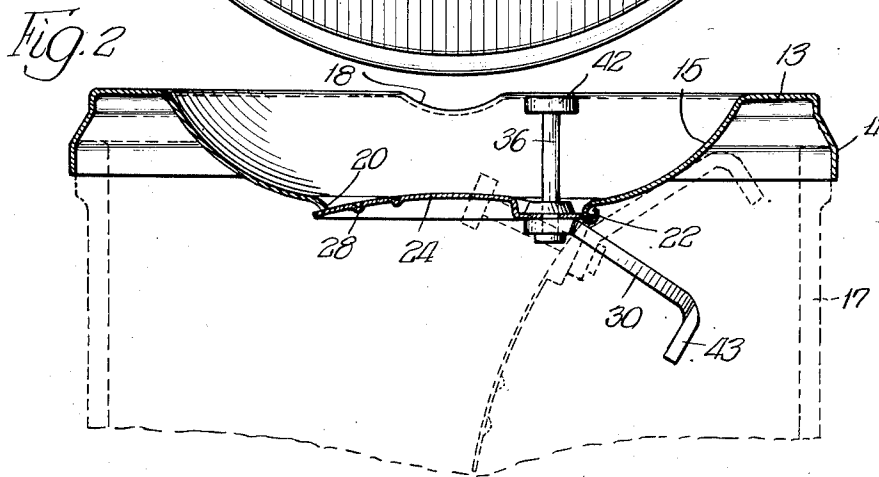
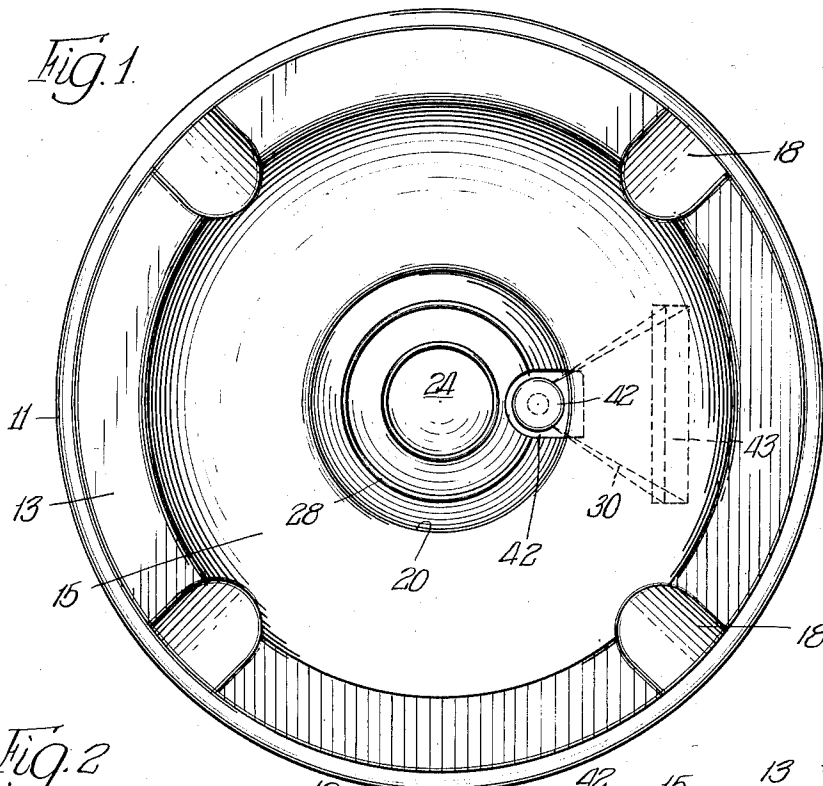
March 4, 1952

R. I. FREDRICKSON

2,587,988

COVER AND CLOSURE FOR WASTE RECEPTACLES

Filed Aug. 26, 1949



INVENTOR.

INVENTOR:
Robert I. Fredrickson,

BY

Wilkinson, Huley, Legon & Home
attys

UNITED STATES PATENT OFFICE

2,587,988

COVER AND CLOSURE FOR WASTE
RECEPTACLESRobert I. Fredrickson, Chicago, Ill., assignor to
Chicago Metallic Manufacturing Company,
Chicago, Ill., a corporation of Illinois

Application August 26, 1949, Serial No. 112,633

1 Claim. (Cl. 220—20.5)

1

This invention relates to a new and improved cover and closure for waste receptacles and more particularly to a counterbalanced, swinging closure particularly adapted for use with ash receptacles or the like.

Various forms of ash receptacles have been developed which are provided with movable closures adapted to support temporarily ashes or other material and then, upon manual operation, to drop it into a container normally covered by the closure. Certain of such devices have spring actuated closures with varying types of closure members and manual operating means. Other types of devices have pivoted closures which are tilted about oppositely placed pivots. The spring actuated types of construction are relatively complicated and expensive to manufacture. The tilting types are objectionable in that the closure is located above the opening and one side of it swings upwardly as the other side swings downwardly. The location and movement of the closure does not permit it to have the close fit which is desirable to smother burning material and prevent escape of smoke or odors from the lower receptacle.

It is an object of the present invention to provide a new and improved cover and closure construction with the closure held in normal closed position by gravity.

It is a further object to provide a device of this character in which the closure is pivoted laterally of the opening covered by the closure and is counterbalanced by a weight secured to the under side of the closure.

It is also an object to provide a cover and closure in which the closure swings below the opening in the cover and is of a size to engage the under side of the edges of the opening to effect a relatively tight closure.

It is another object to provide such a swinging closure with a counterbalance swinging clear of the opening and engaging the under side of the cover to limit downward swinging movement of the closure.

It is an additional object to provide such a device in which means for manual operation is located above the closure and connected thereto adjacent the pivot.

Other and further objects will appear as the description proceeds.

I have shown certain preferred embodiments of my invention in the accompanying drawings, in which—

Figure 1 is a plan view of the device;

Figure 2 is a transverse vertical section, partly

2

in elevation, showing the operating mechanism; and

Figure 3 is a fragmentary section, on an enlarged scale, showing the connection of the movable parts.

The device comprises a cover member 11 having a raised edge portion 13 and a depressed central receiving portion 15. It will be understood that this cover is adapted for use in connection with various types and shapes of receptacles, one of which has been indicated in broken lines at 17 in Figure 2.

The raised outer ring portion 13 is shown as provided with a plurality of depressions 18 adapted to receive cigars, cigarettes or the like. The particular configuration of the cover member forms no part of the present invention, but is directed to the arrangement of the closure member and its connections and related parts. That is, the cover may be other than circular and the receiving portion may have various forms with different shapes of openings therein.

In the form of construction shown, the depressed portion 15 of the cover member 11 is provided with a circular opening 20. The cover member is provided adjacent the central opening 20 with an inwardly extending lug 22 which, as has been shown in Figures 2 and 3, is bent reversely back upon itself to form a pivot or hinge for the closure member or shutter 24. The lug 22 passes through a slot 25 in a laterally projecting portion 26 of the closure member 24. The closure member 24 is shown as formed to present a convex surface upwardly and is strengthened with circumferential corrugations 28.

As clearly shown in Figure 2, the closure member 24 is greater in size than the opening 20 of the cover member and makes a relatively tight fit by contacting the downturned edge of the member 15 adjacent the opening 20.

In order to maintain the closure member 24 normally in the closed or horizontal position, a weight or counterbalance member 30 is secured to the lower face of the closure member. As specifically shown in Figure 3, the closure member 24 is provided with a depressed boss 32 having an opening 33 in registration with a similar opening 34 in the counterweight 30. A tumbler pin 36 is provided with a shoulder 37 fitting against the upper face of the boss 32 and with a cylindrical portion 38 extending through the opening 33 in the closure member 24 and the registering opening 34 in the weight and having its lower end riveted over, as shown at 40, to hold the parts in fixed relationship.

3

The upper end of the tumbler pin 36 is provided with a finger contact piece 42. As best shown in Figure 2, counterbalance member 30 extends rearwardly and downwardly below the adjacent portion of the cover member and clear of the opening 20 in the cover member. This weight 30 is provided with a downturned flange 43 and, as shown in broken lines in Figures 1, widens out in a generally triangular form from the point at which it is secured to the closure member 24. It thus provides adequate weight with a sufficient lever arm so as to counterbalance the closure member 24 and a moderate amount of waste material which may be placed upon the closure member. When it is desired to drop this material into the lower container, a touch of the finger on the finger piece 42 of the tumbler pin 36 tilts the parts toward the position in which they are shown in broken lines in Figure 2. This opens up the greater portion of the area of the opening 20 for passage of the material. It will be noted that the counterweight 30 is so located and proportioned that, in the tilted position, it engages the under face of the depressed portion 15 of cover 11, thus limiting the opening movement of the closure and insuring a quick return of the parts to normal position upon release of finger pressure upon the member 42.

While a preferred embodiment of the invention has been shown, this is to be understood to be illustrative only as the construction may be varied to meet differing conditions and requirements, and I contemplate such modifications as come within the spirit and scope of the appended claim.

4

I claim:

In an ash receiver or the like, a cover member having a raised edge portion and a depressed central receiving portion, said receiving portion having an opening therein, a tiltable closure member larger than the opening pivotally secured at one point to the under side of the cover member adjacent the edge of the opening, an opening through the closure adjacent the pivoted connection, a counterbalance located below the closure and extending away from the closure beyond the pivot, said counterbalance having an opening therein aligned with the opening through the closure, and a tumbler pin extending above the closure for manual operation to tilt the closure, said pin extending through the closure and counterbalance openings to secure the parts in assembled relation.

ROBERT I. FREDRICKSON.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
1,037,625	Hofer	Sept. 3, 1912
1,799,897	Gronbeck	Apr. 7, 1931
1,800,665	Schultz	Apr. 14, 1931
1,975,412	Taylor	Oct. 2, 1934
2,248,163	Dick et al.	July 8, 1941

FOREIGN PATENTS

Number	Country	Date
35 802,304	France	June 6, 1936