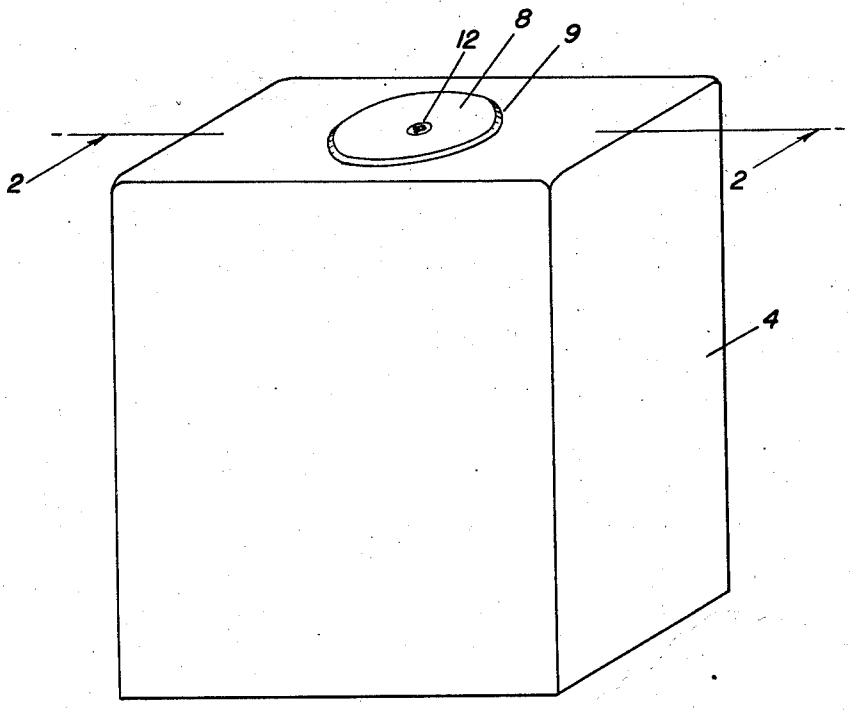
Sept. 7, 1948. F. W. SOHNLEIN 2,448,838

CLOSURE FOR CONTAINERS

Filed Jan. 23, 1946

Fig. 1



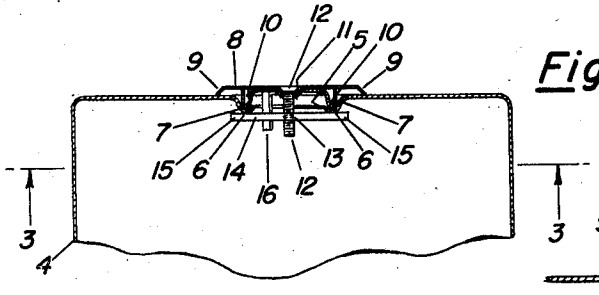


Fig. 2

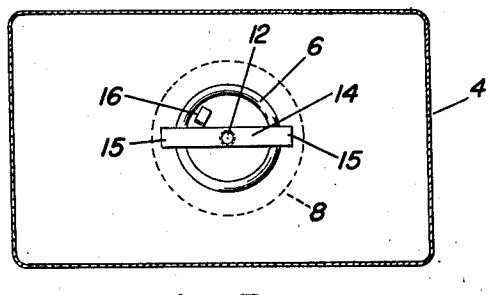


Fig. 3

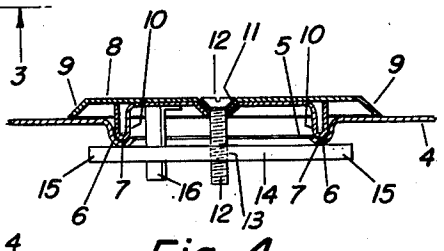


Fig. 4

INVENTOR.
FRED W. SOHNLEIN

BY Everett R. Curtis

ATTORNEY

Patented Sept. 7, 1948 2,448,838

UNITED STATES PATENT OFFICE

2,448,838

CLOSURE FOR CONTAINERS

Fred W. Sohnlein, San Diego, Calif., assignor of one-half to Granville M. Bowman, San Diego, Calif.

Application January 23, 1946, Serial No. 642,889

2 Claims. (Cl. 220—25)

1

My invention relates to closures for receptacles, particularly urns or containers used for shipping, storage or burial of incinerated or cremated remains of human bodies; and its objects are to provide a hermetic seal effectually excluding from admission to said urns or containers deleterious, contaminating or obnoxious gases, liquid or solid matter which might cause injury to such remains; to furnish a closure the parts of which can be economically constructed and with great saving of labor stamped or formed from sheet metal through the use of simple dies or forming tools; to allow the closure readily to be opened or closed with minimum of effort and without requiring the use of special tools for such purpose, and to permit the ready introduction or removal of said remains within or from said container and inspection thereof whenever found necessary or desirable; to render the parts easily accessible for replacement or repair, and generally to provide a device which is simple of construction, efficient in action and will not readily deteriorate or get out of order.

My invention primarily consists in depressing the edge of the circular outlet of a receptacle to form a ledge having an annular rounded channel therein, and in providing a cover closure plate of larger size than said outlet and extending over and beyond the same; the said closure plate having a downwardly depending rib or flange shaped closely to engage with said channel and an opening through which passes a bolt or screw in screw threaded engagement with a bar within said receptacle positioned to engage with the under face of said ledge; whereby upon tightening the said bolt or screw a hermetic seal as between said plate and receptacle is firmly effected.

My invention further consists of other novel features of construction, and combinations and arrangements of elements or parts, illustrated in the drawing and as hereinafter more particularly set forth and described.

Attention is hereby directed to the drawing, illustrating a preferred form of my invention, in which similar numerals of designation refer to similar parts throughout the several views, and in which—

Figure 1 is a view in perspective, showing a conventional memorial urn or receptacle for the reception and preservation of cremated remains of a human body, and showing my improved form of closure applied to the outlet thereof;

Fig. 2 is a sectional view of the top portion of said urn, closure and outlet on line 2—2 of Fig. 1 looking in the direction of the arrows, and

Fig. 3 is a sectional view of said urn on line 3—3 of Fig. 2, looking upwardly on line 3—3 in the direction of the arrows, and showing the underside of the top wall of said urn, together

2

with outlet, lower face of closure plate, securing screw, rotary pressure bar and lug for limiting rotation thereof, and Fig. 4 is an enlargement of the closure shown in Fig. 2.

Referring to the drawing, extending through the top, bottom or one of the side walls of the conventional urn or receptacle 4, I form the outlet 5, preferably circular in form, and large enough to permit the ready introduction into the hollow of said urn of the incinerated or cremated remains of a human body, and subsequently to allow the inspection at any time of such remains or the removal thereof should occasion require. As shown, the wall of the urn adjacent to the edge of said outlet 5 is stamped or tooled to form the annular curved ledge 6, having the rounded channel 7 therein. Extending over and substantially beyond the said outlet 5 and channel 7 is the closure plate 8, preferably round in form and having its edge bent to form the rim 9, the face of which is levelled to make close contact with the face of the adjoining wall of the urn. Firmly welded or otherwise securely attached to the underside of the plate 8 is the rounded annular rib 10 positioned and shaped to make accurate engagement with the channel 7 of the annular ledge 6. Extending through the central portion of the plate 8 is the opening 11, the edge of the plate and parts adjacent thereto being bent inwardly to form a seat for the head of the countersunk screw 12, the threaded shank of which extends through said opening and makes threaded engagement with the threaded passageway 13 in the rotary pressure bar 14; the arms 15 of which bar extend beyond the bottom of the annular ledge 6 and make contact therewith upon the tightening of said screw 12. In order to limit the rotation of the said bar 14, so that the said screw 12 may be released therefrom or tightened therein, I preferably secure to the bottom side of the plate 8, the lug 16 downwardly depending therefrom and located to make contact with one arm of said bar upon rotation thereof.

While I have described the form of the outlet 5, closure plate 8 and adjacent parts as round, I do not desire so to limit the scope of my invention, since as is obvious such parts could be made oblong or rectangular without departing from the spirit or purpose of my invention.

To attach my improved closure, the urn 4 having received its desired contents, I loosen the threaded engagement of the shank of the screw 12 with the pressure bar 14, so that the said bar may readily be inclined and passed through the outlet 5, and thereupon the plate is carefully positioned and centered to cover the said outlet and to extend beyond the same as shown in the drawing; at which time, the screw 12 is tightened through the use of an ordinary screwdriver and

the arms 15 of said pressure bar brought into contact with the bottom wall of ledge 6; thereby forcing the rib 10 into close engagement with the channel 7, and bringing the rim 9 into close contact with the face of the adjacent wall of said urn, and effecting a double hermetic seal of the outlet of said urn. To detach my improved closure, the screw 12 may be similarly turned and released by a screwdriver, and the closure plate 8 readily removed.

My invention may be embodied in other specific forms without departing from the spirit or essential characteristics thereof. The present embodiment, as above set forth is therefore to be considered in all respects as illustrative and not restrictive, the scope of my invention being indicated by the appended claims rather than by the foregoing description, and all changes which may come within the meaning and range of equivalency of the claims are therefore intended to be embraced therein.

What I claim and desire to secure by Letters Patent is:

1. In a closure for receptacles, the combination of a circular outlet the edges of which are depressed inwardly to form a ledge having an annular rounded channel therein, a closure plate of larger size than the opening of said outlet and positioned to cover and extend beyond the same, said closure plate having a downwardly depending annular rounded rib closely engaging with said channel and said plate having an aperture through which extends a screw inside of said receptacle, and a bar in rotatable threaded engagement with said screw, a lug secured to said plate and positioned to contact said bar and

limit the rotation thereof, the arms of which bar are located to engage with the bottom of said ledge upon the tightening of said screw, and thereby to effect the hermetic sealing of the outlet of said receptacle.

2. In a closure for receptacles, the combination of a round outlet the edges of which are depressed inwardly to form a continuous ledge having an annular rounded channel therein, a closure plate of larger size than the opening of said outlet and positioned to cover and extend beyond the same, said closure plate having a downwardly depending annular rounded rib closely engaging with said channel and said plate having a central aperture through which extends a screw inside of said receptacle, and a bar in rotatable threaded engagement with said screw, a lug secured to said plate and positioned to contact said bar and to limit the rotation thereof, the arms of which bar are located to engage with the bottom of said ledge upon the tightening of said screw, and thereby to effect the hermetic sealing of the outlet of said receptacle.

FRED W. SOHNLEIN.

REFERENCES CITED

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

UNITED STATES PATENTS

Number	Name	Date
1,372,037	Parsons	Mar. 22, 1921
2,107,762	Olds	Feb. 8, 1938
2,226,233	Shapiro	Dec. 24, 1940
2,359,053	Schonitzer et al.	Sept. 26, 1944