

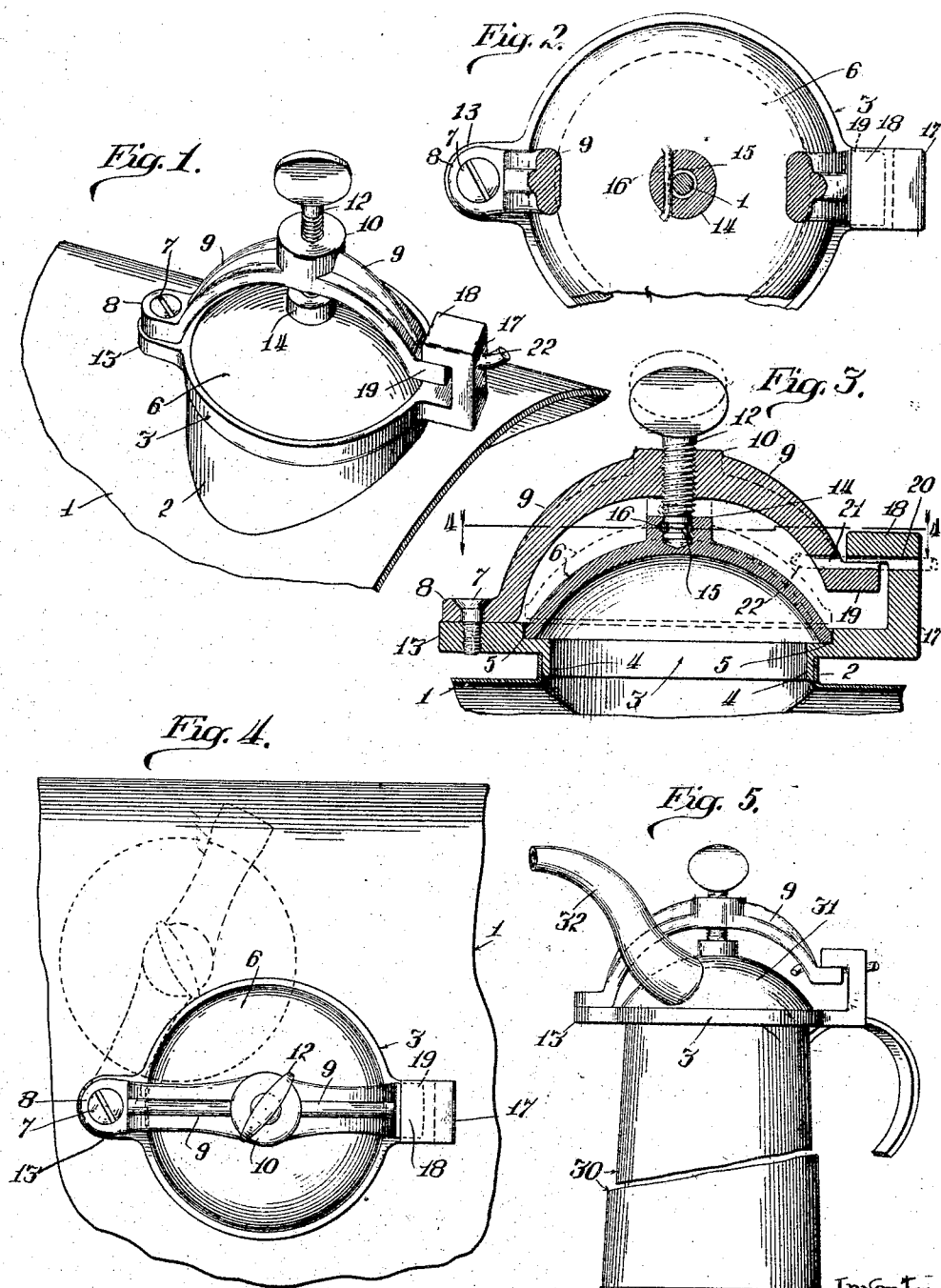
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CLOSURE FOR RECEPTACLES

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UNITED STATES PATENT OFFICE.

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CLOSURE FOR RECEPTACLES.

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To all whom it may concern:

Be it known that I, SAMUEL BABITZKY, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented new and useful Improvements in Closures for Receptacles, of which the following is a specification.

The invention relates to improvements in closures for receptacles.

Receptacles are frequently closed by means of a plug or cap seated in or on a tubular projection on the receptacle, the projection having a pipe thread and the cap or plug also being provided with internal or external pipe thread respectively, for attachment to the device. These fine pipe threads are easily mutilated so as to render it difficult to place the closure in position, and even where the threads are in good order the operation of placing the cap in closing position is made difficult since the two threaded portions do not usually enter into the necessary holding engagement readily.

In the present application an unthreaded cap or cover is adapted to be placed on the receptacle and is secured in position by a holding device which in itself is automatically pressed into locking engagement when the cover is forced on its seat, while it is released from its lock with the release of the cover from the seat.

It is an object of the invention to provide a closure for the receptacle with a device for securely holding it in place, and to provide means whereby the closure can be removed from the opening to be covered thereby only after release of a holding device.

Another object of the invention is to provide a holding device of this character which can be moved to releasing position only after the closure has been partly elevated to opening position.

It is also an object of the invention to provide a device of this character which is readily adaptable to receptacles of various forms and which can readily be attached and removed whenever desired.

With these and other objects in view, embodiments of the invention are described in the following specification and are illustrated in the accompanying drawing, wherein,

Fig. 1 is a perspective, fragmentary view of a portion of a receptacle with the improved cover shown in closed position;

Fig. 2 is the top plan view of the same;

Fig. 3 is a vertical, sectional, central view taken through the cover and holding device;

Fig. 4 is a horizontal, sectional view on line 4—4 of Fig. 3, and

Fig. 5 is a side elevation of the closure and holding device applied to a different receptacle.

The tank 1, shown in Figs. 1, 2, and 3, may be an ordinary gasoline tank having a tubular extension 2 to which by welding or in any other suitable way a member 3 is secured. This member is shown to be provided with an annular flange 4 in engagement with the tubular extension 2 and has an annular counter bore 5 in which the cover 6 may be firmly seated so as to prevent discharge of the fluid from the tank. The cover 6 shown in Fig. 3 to be provided with a horizontal closing surface and a cylindrical vertical surface adapted to seat against the horizontal and cylindrical portion respectively of the counter bore 5 in the member 3.

This cover is maintained on its seat by a holding device which is movably connected with the projection 13 of the member 3, as for instance by a shoulder screw 7 in threaded engagement with said projection 13 and passes rotatably through a bore in the extension 8 of the bail shaped part 9 of the holding device. The central portion of the bail shaped part 9 is enlarged to form a boss 10 having a tapped opening through which a thumb screw 12 extends, the lower part of the screw 12 being without threads and rotatably seated in the central boss 14 of the cover. This cylindrical extension is provided with an annular groove 15 through which a pin 16 secured in the boss 14 passes, whereby rotation of this screw in the boss is rendered possible while axial movement of the screw relatively to the cover is prevented.

Opposite the extension 13 of the member 3, the latter has another holding lug having an upward projecting part 17, and an inward directed horizontal portion 18 adapted to enter into engagement with an extension 19 on the bail shaped member 9.

The method of using this closure will be understood from the above disclosure. When it is desired to open the receptacle the cover 6 is raised above the top plane of the member 3, as shown in dotted lines in Fig. 3. The relative movement of the cover with

respect to the holding device 9 is effected by manipulation of the thumb screw 12. The cover structure comprising the holding device 9 and the cover 6 itself may then be swung back about the pivot 7 so that the cover will free the opening in the receptacle, as shown in dotted lines in Fig. 2. The receptacle may then be filled, and the cover structure may then be returned to dotted line position of Fig. 3. The thumb screw 12 is manipulated again to lower the cover 6 on its seat, as shown in full lines. When the cover is fully seated and the screw 12 is rotated, the holding device 9 with its extension 19 will be forced upward against the lower face of the horizontal part 18 so as to frictionally secure the bail shaped portion in place against any accidental displacement.

This safety against accidental displacement or even against intended but unauthorized opening of the closure may be enhanced by providing the horizontal lug 18 with a bore 20 extending horizontally through the same which is in alinement with a similar bore 21 in the horizontal extension 19 of the holding device 9 after the latter has been moved to operative position. A pin 22 may be driven through these two alined bores 20, 21, whereby a pivotal movement of the holding device about its pivotal point may be prevented, or where it is desired to prevent unauthorized access to the receptacle, the bail of a padlock or similar device not shown may be inserted through the alined bores so that even upon manipulation of the holding screw 12 a release of the bail shaped member cannot take place, and therefore a removal of the cover 6 cannot be effected.

In the embodiment illustrated in Fig. 5 an oil can 30 is shown to be provided with a removable cover 31 having a discharge spout 32, this cover having a diameter approximately equal to the upper diameter of the can. A member 3 with an extension 13 is secured to the upper margin of the can for receiving the holding bail 9. The construction of the parts may be similar to those described in connection with the first embodiment. In this embodiment the improved closure also will securely protect the contents of the can but will permit the can to be filled readily without necessitating the removal of a threaded cap or plug, an inconvenience to closing position after filling of the receptacle.

I claim:

1. A receptacle closure comprising a cover adapted to be seated over the opening of a receptacle, the receptacle being provided

with a flange seated in said opening and having a counter bore, the flange being also provided with two diametrically opposite extensions, a holding device pivotally secured to one of said extensions and adjustably supporting said cover, and means interposed between said cover and said holding device for forcing said cover into the counter bore and for forcing the holding device into locking engagement with the second extension.

2. A receptacle closure comprising a cover adapted to be seated over the opening of a receptacle, a member inserted in said opening and having a counter bore, the contour of which corresponds to the contour of the cover, said member being provided with an extension, a holding device connected with the cover and provided with a projection, said member having another extension with which said projection is adapted to engage, the connecting means between the cover and holding device being formed by a screw in threaded engagement with the holding device and rotatably secured and held against axial displacement relatively to the cover.

3. A receptacle closure comprising a cover adapted to be seated over the opening of a receptacle, a member fixed to the receptacle and surrounding said opening, said member being provided with diametrically opposite extensions, a holding device pivoted to one of said extensions and having a projection adapted to engage the other extension, means in said holding device for forcing the cover to closing position, and means for preventing relative movement between said projection on the holding device and the second extension on the member.

4. A receptacle closure comprising a cover adapted to be seated over the opening of a receptacle, a holding device pivoted to the receptacle, a lug projecting from the receptacle and adapted for engagement with said holding device, and a screw in threaded engagement with the holding device and rotatably extending into the cover, whereby upon manipulation of said screw in a predetermined direction the cover will be forced over the opening and the holding device will be forced into locking engagement with the extension on the receptacle.

In testimony whereof I affix my signature in the presence of two witnesses at 10 South La Salle St., Chicago, Illinois.

SAMUEL BABITZKY.

Witnesses:

DANIEL B. BRENNAN,
BERYL EASTBURN.