V. A. NIXON.

TANK CLOSURE.

APPLICATION FILED MAY 10, 1920.

1,369,754. Patented Feb. 22, 1921.

Fig. 1.

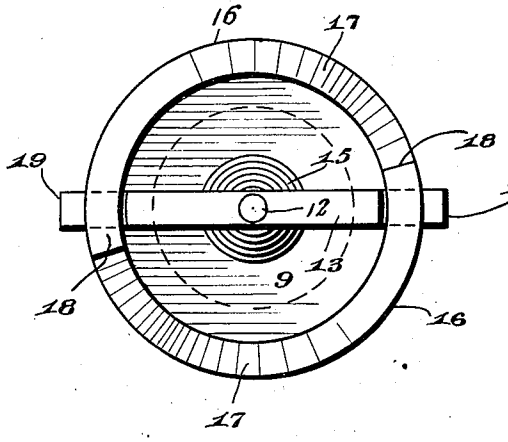


Fig. 2.

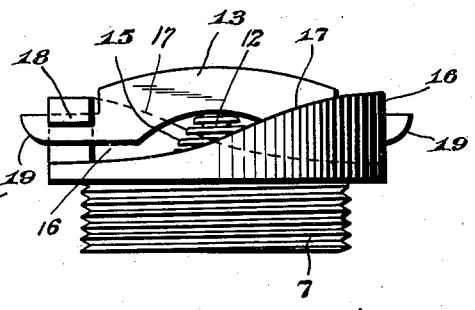


Fig. 4.

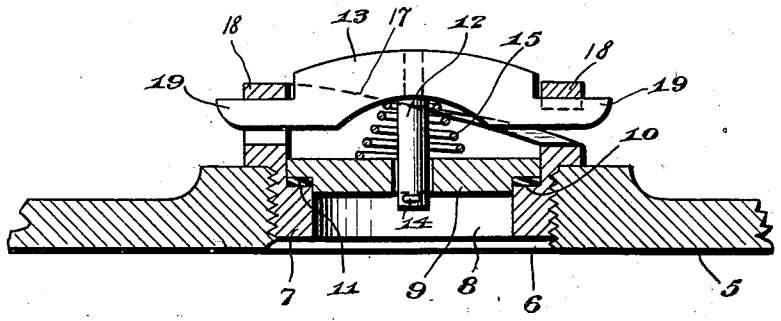
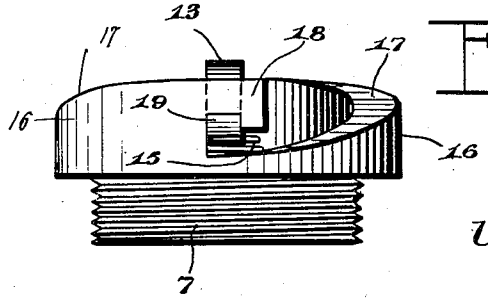


Fig. 3.



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UNITED STATES PATENT OFFICE.

VERGNE A. NIXON, OF LAKE VILLA, ILLINOIS, ASSIGNOR TO NIXON MANUFACTURING COMPANY, A CORPORATION OF ILLINOIS.

TANK-CLOSURE.

1,369,754. Specification of Letters Patent. Patented Feb. 22, 1921.

Application filed May 10, 1920. Serial No. 380,258.

To all whom it may concern:

Be it known that I, VERGNE A. NIXON, a citizen of the United States, residing at Lake Villa, in the county of Lake and State of Illinois, have invented new and useful Improvements in Tank-Closures, of which the following is a specification.

The device which is the subject matter of the present application for patent has been designed more particularly to serve as a closure for the filler opening of gasoline tanks carried by motor vehicles, although it is not limited to such tanks, but may be applied, with equal facility, to other tanks or receptacles.

The invention has for its object to provide a novel and improved closure which can be easily and quickly manipulated for removal from the filler opening, and for application thereto, and to this end the invention consists in a combination and arrangement of parts to be hereinafter described and claimed.

In order that the invention may be better understood, reference is had to the accompanying drawing forming a part of this specification, and in said drawing—

Figure 1 is a plan view of the device;

Figs. 2 and 3 are side elevations thereof, and

Fig. 4 is a cross section of the device in place.

Referring specifically to the drawing, 5 denotes a fragment of a tank or other receptacle having a filler opening 6 which is screw-threaded to seat a closure in the form of a screw plug 7. In order that the tank may be filled without removal of the plug 7 from the opening 6, the plug has a large central pouring opening 8 from the top to the bottom, and this opening is provided with a closure consisting of a disk 9 adapted to enter the opening to seat on a shoulder 10 therein. The under side of the disk 9, where it seats on the shoulder 10, may be provided with a suitable gasket 11 to form a liquid-tight seal.

Through the center of the disk 9 passes a pin 12 carrying at its upper end a cross bar 13, and having below the disk a cotter pin or other suitable abutment 14. The pin 12 passes loosely through the disk 9 so that the latter is not disturbed when the cross bar 13 is swung and the pin turns.

Between the top of the disk 9 and the under side of the cross bar 13, a spring 15 is coiled around the pin 12. This spring acts to hold the disk 9 pressed down to its seat 10.

The top of the plug 7 has two diametrically opposite, upstanding flanges 16, each of which has its top edge inclined, as shown at 17, the two inclines running in opposite directions. The end of each flange 16 at the highest point of the incline 17 is shaped to form an overhanging hook 18.

The cross bar 13 is reduced at its ends as shown at 19, and said ends are adapted to seat under keeper member consisting of the hooked ends 18 of the flanges 16, and spaced from the top of the plug 7. It will therefore be seen that when the cross bar 13 is pressed down and given a slight turn to clear the hooks 18, the closure disk 9 may be removed from the opening 8 in the plug 7. Upon turning the cross bar after it clears the hooks, it will climb the inclines 17, and this upward movement of the cross bar lifts the disk off its seat 10. To again apply the disk 9 the action just described is reversed, the cross bar being swung to travel down the inclines, and until its ends 19 again seat under the hooks 18, the inclines guide said ends to the hooks.

I claim:

1. A member having a filler opening and diametrically opposite flanges rising from said member at the outer end of the opening, said flanges having their top edges inclined in opposite directions, and the ends of the flanges at the top of the inclines having overhanging hooks, a cross bar adapted to seat at its ends under the hooks, a closure for the aforesaid opening, a pin extending from the cross bar and having a loose connection with the closure, and a spring interposed between the closure and the cross bar for holding the former seated.

2. A closure for the filler opening of a receptacle, said closure comprising a plug seating in said opening and having a pouring opening, and provided with diametrically opposite flanges rising from the plug at the outer end of the pouring opening,

said flanges having their top edges inclined in opposite directions, and the ends of the flanges at the top of the inclines having overhanging keeper members, a cross bar adapted to seat at its ends in the keeper members, a closure for the aforesaid pouring opening, a pin extending from the cross bar and having a loose connection with the closure, and a spring interposed between the closure and the cross bar for holding the former seated.

In testimony whereof I affix my signature.

VERGNE A. NIXON.