

Nov. 14, 1933.

M. KLUMP

1,935,154

TANK CLOSURE LOCK

Filed May 3, 1932

2 Sheets-Sheet 1

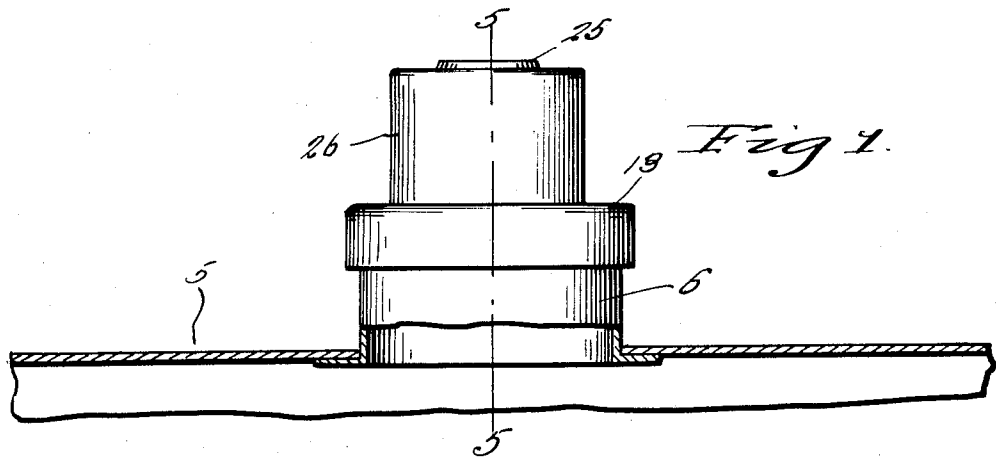


Fig. 2.

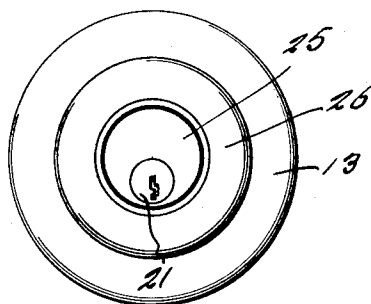


Fig. 3.

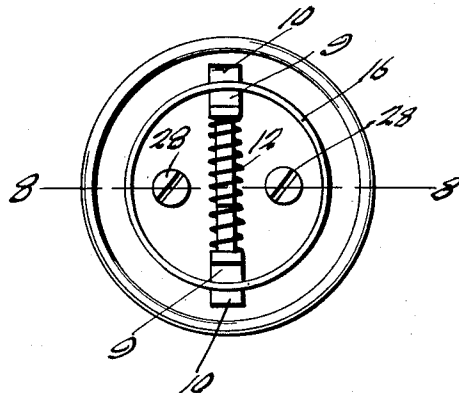
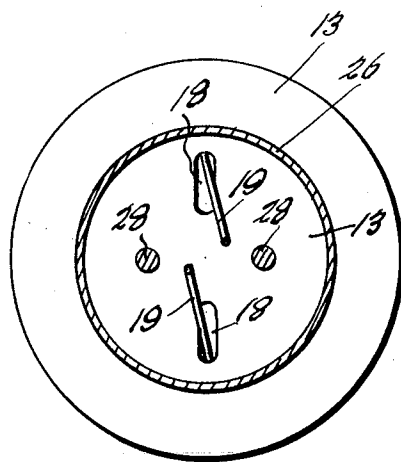


Fig. 4.



Inventor

Mae Klump

By *Oliver A. O'Brien*
Attorney

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M. KLUMP

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Fig. 5.

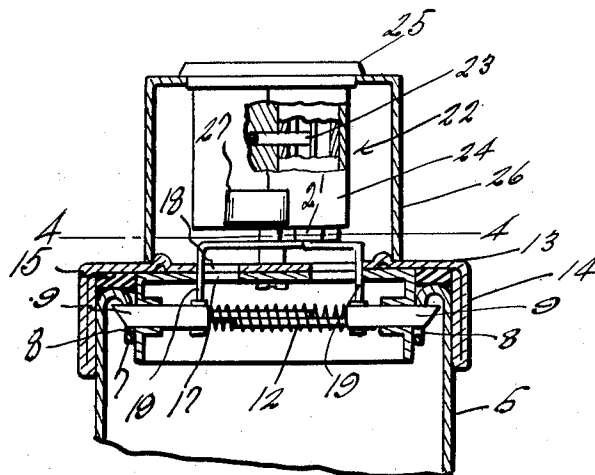


Fig. 6.

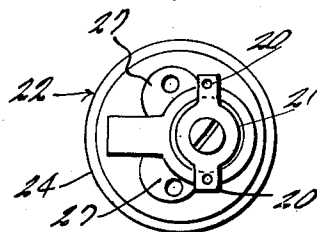
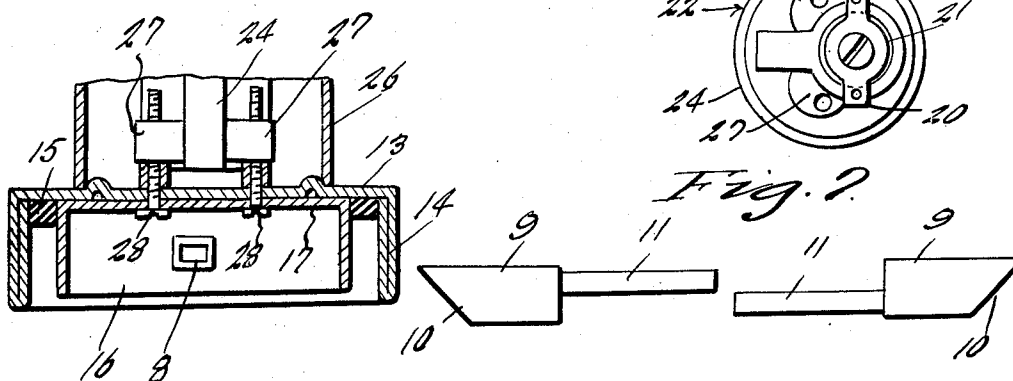


Fig. 2.



Inventor

Mae Klump

By Clarence A. O'Brien
Attorney

UNITED STATES PATENT OFFICE

1,935,154

TANK CLOSURE LOCK

Mae Klump, Merna, Nebr.

Application May 3, 1932. Serial No. 608,981

1 Claim. (Cl. 70—90)

This invention appertains to new and useful improvements in closures and more particularly to locking means for closures.

The principal object of this invention is to provide a novel closure lock particularly adapted for use on gasoline tank closures.

Another important object of the invention is to provide a closure lock which will be easy to manipulate, substantially fool-proof and of low cost to manufacture.

These and other important objects and advantages of the invention will become apparent to the reader of the following specification.

In the drawings:—

Figure 1 represents a side elevational view of the closure, showing the gasoline tank in section.

Fig. 2 represents a top plan view of the closure and lock.

Fig. 3 represents a bottom plan view of the closure and lock.

Fig. 4 represents a horizontal sectional view taken substantially on line 4—4 of Fig. 5.

Fig. 5 represents a vertical sectional view taken substantially on line 5—5 of Fig. 1.

Fig. 6 represents a bottom plan view of the lock.

Fig. 7 represents a side elevational view of the slide bolts.

Fig. 8 represents a fragmentary detailed sectional view taken substantially on line 8—8 of Fig. 3.

Referring to the drawings wherein like numerals designate like parts, it can be seen in Fig. 1, that numeral 5 represents a gasoline tank from which extends the filler neck 6. Referring to Fig. 5, it can be seen that the upper portion of this filler neck is bent inwardly to provide the downwardly disposed flange 7, which flange is provided with openings 8—8 to receive the bolt heads 9—9, each being provided with a beveled end 10 and with an inwardly extending stem 11, the stem being disposed in overlapping relation as in the manner substantially shown in Fig. 5, with a coiled spring 12 convoluted around the same and interposed between the inner ends of the bolt heads 9—9 as in the manner shown in Fig. 5.

Fig. 5 discloses the cap 13, which is provided with a downturned flange 14 for engagement in snug relation with the outer side of the neck 6. Numeral 15 represents a packing gasket for interposition between the cap 13 and the upper end of the neck 6, while numeral 16 represents an annular wall having a top 17 formed with openings 17' registering with the openings

18 in the cap 13 and through which the horizontally disposed L-shaped arm 19 extends, these arms being pivotally connected at their lower ends to the corresponding bolt heads 9, while their upper ends are pivotally connected to the corresponding lugs 20 on the rotary barrel 21 of the key lock 22, the key lock 22 being of the pin displacement type, one of the pins being shown and designated by numeral 23 in Fig. 5.

Numeral 24 represents the shell of the lock 22, this shell being provided with a circumferentially protruding base plate 25 which abuts the outer end of the cylindrical casing 26 as in the manner substantially shown in Fig. 5.

The inner end portion of the shell 24 is provided with a pair of diametrically projecting ears 27 each provided with a threaded bore and as is clearly shown in Fig. 8, screws 28 extend upwardly thru openings in the wall top 17 and cap 13 to thread into the ears 27 and obviously by tightening these screws, the lock 22 can be drawn toward the cap 13 and incidentally bind the casing 26 tightly against the cap 13.

It can be seen, that there is no way in which the lock can be removed from the cap 13, and the only manner in which the cap can be removed from the neck 6 is by inserting the key into the lock 22 to retract the bolt heads 9—9.

While the foregoing specification sets forth the invention in specific terms, it is to be understood that numerous changes in the shape, size and materials may be resorted to without departing from the spirit and scope of the invention as claimed hereinafter.

Having thus described my invention, what I claim as new is:—

In combination, a cap, a lock mounted on said cap and including a rotary member, said rotary member being provided with laterally apertured disposed arms, a pair of slide bolts on the cap having reduced overlapping end portions, a spring coiled about the overlapping end portions, and arms pivotally connected to said bolts and extending therefrom and pivotally connected in the apertures in said laterally disposed arms.

MAE KLUMP.

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