July 7, 1925. 1,544,951

S. S. SOLLEE

LOCK

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Fig. 1.

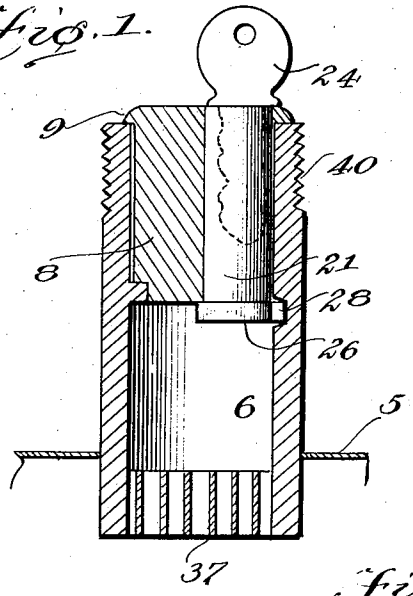


Fig. 3.

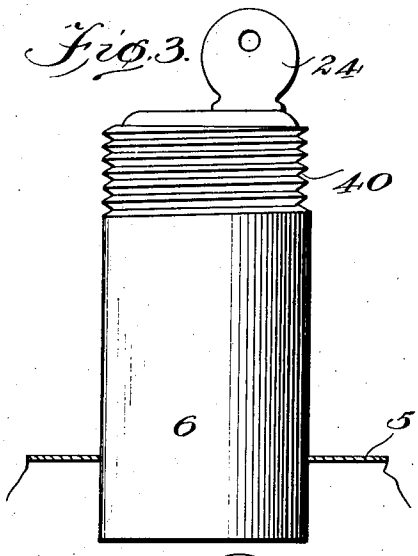


Fig. 5.

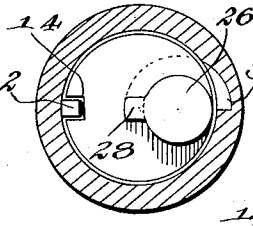


Fig. 2.

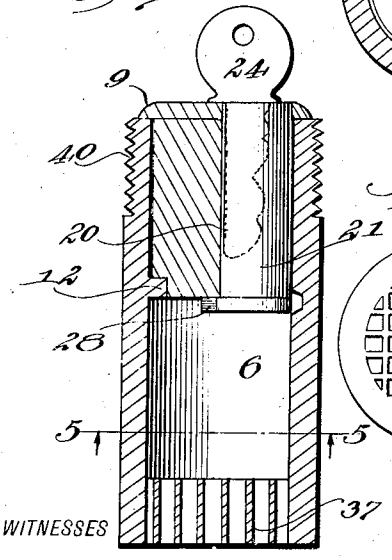
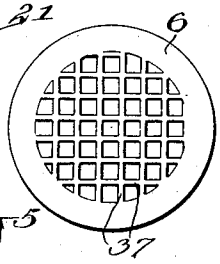


Fig. 6.



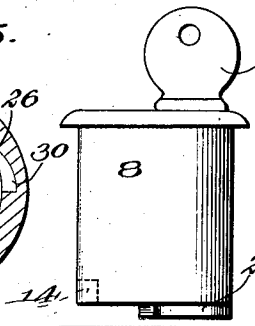
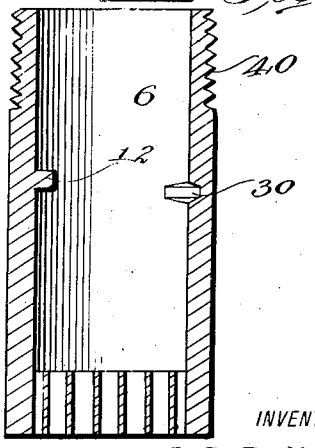


Fig. 4.



WITNESSES

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UNITED STATES PATENT OFFICE.

SIDNEY SAUVAL SOLLEE, OF SAVANNAH, GEORGIA.

LOCK.

Application filed November 10, 1922. Serial No. 600,128.

To all whom it may concern:

Be it known that I, SIDNEY S. SOLLEE, a citizen of the United States, and resident of Savannah, in the county of Chatham and State of Georgia, have invented certain new and useful Improvements in Locks, of which the following is a specification.

This invention relates to locking devices for the tanks of automobiles.

Briefly stated an important object of this invention is to provide a locking means for the tank of an automobile wherein a locking body is provided and this locking body snugly fits within the filling member of the tank and thereby closes the same and effectively excludes dust and other foreign matter.

A further object is to provide a locking device wherein simple means is provided to hold the combined locking member and closure in position when within the filling member and in accordance with this invention the cap may be applied to the filling member after the removal of the key without interference by the lock.

A further object is to provide a filling member for automobile tanks having a grating which prevents the gasoline contained within the tank from being withdrawn by means of a siphon.

A further object is to provide a locking means for automobile tanks which is of highly simplified construction, durable in use and cheap to manufacture.

Other objects and advantages will be apparent during the course of the following description.

In the accompanying drawing forming a part of this application and in which like numerals are employed to designate like parts throughout the same,

Figure 1 is a vertical sectional view through the improved lock applied, the locking lug being shown in its operative position.

Figure 2 is a vertical sectional view through the lock applied, the locking member being shown in its inoperative position.

Figure 3 is a side elevation of the improved locking member applied.

Figure 4 is a group view illustrating the improved lock, the filling member being shown in section.

Figure 5 is a horizontal sectional view taken on line 5—5 of Figure 2.

Figure 6 is an end elevation illustrating the improved lock and grate by means of which gasoline cannot be withdrawn from the tank by a siphon.

In the drawing, wherein for the purpose of illustration is shown a preferred embodiment of the invention, the numeral 5 designates a tank especially adapted for the reception of gasoline and having a tubular filling member 6 by means of which gasoline may be introduced into the tank.

However, any proper liquid may be introduced into the tank 5 though in this case the tank is carried by the automobile and in most cases carries gasoline.

As illustrated in Figures 1 and 2 the tubular filling member 6 snugly receives a cylindrical plug or closure 8 the upper or rear end of which is formed with an annular flange 9 which flatly contacts with the rear end of the filling member and thereby limits movement of the plug or closure into the filling member.

In addition to this, the interior of the filling member 6 is provided interemediate its ends with an inwardly directed stop lug 12 which is received within a socket 14 in the lower portion of the cylindrical plug 8. It will be seen that the lug 12 when received within the socket 14 not only limits the downward movement of the plug 8 but also holds the plug against rotation when in position in the filling member.

The cylindrical plug 8 is provided with a longitudinally extending opening 20 which rotatably receives a lock casing 21 having a key receiving opening extending out through its rear end whereby a key 24 may be conveniently inserted into the lock.

The locking disk 26 is arranged in advance of the plug 8 and is formed with a radial locking lug 28 which may be moved into a locking notch 30 in the inner wall of the filling member.

It will be seen with reference to Figures 2 and 4 that the radial locking lug 28 may be positioned centrally of the plug 8 and in that case the plug may be conveniently removed and the lock is rotated by means of the key 24 so as to move the locking lug 28 into the arcuate locking r ch 30, whereby the plug is positively held against withdrawal.

In operation the tank is filled and the plug 8 is inserted into the casing so that the socket 14 will receive the locking lugs 12 whereby the plug is held against downward

movement and against rotation. By thus holding the plug 8 against rotation the locking disk 26 and the locking lug 28 carried thereby are positioned properly with relation to the locking notch 30 and it is not necessary to manually turn the plug after it is inserted into the casing.

Attention is directed to the fact that the plug 8, the lock casing 21, the disk 26 and the locking lug 28 are all arranged within the filling member 6 so that tampering with these parts is absolutely prevented. The lug 12 which is a stop member effectively cooperates with the radial locking lug 28 in preventing the plug 8 from being forced downwardly through the filling member 6.

In carrying out the invention the lower portion of the filling member 6 is provided with a grating 37 which prevents siphons from being introduced into the tank by an unauthorized person.

It will be seen that the rear portion of the filling member 6 is provided with external threads 40 with which the threads of the filler cap may be engaged.

It will be seen that the filler cap can be conveniently applied to the member 6 when the lock and the plug 8 are in position and these parts do not in any way interfere with the application of the cap. Furthermore the parts are completely concealed by the cap so that dust is effectively excluded and the lock is concealed from view.

Having thus described the invention, what is claimed is:—

The combination with a tubular filling member having its intermediate portion formed with an arcuate locking notch gradually decreased in depth toward its end, a cylindrical plug snugly received in said tubular member and having its rear portion formed with an annular flange engaging the rear end of the tubular member whereby to limit the movement of the plug into the tubular member, the intermediate portion of the tubular member being formed with an internal inwardly directed stop element, said plug being formed with a socket opening out through one end and the side thereof to snugly receive said stop element, said stop element constituting a means to hold the plug against rotation, and a locking cylinder extending longitudinally through the plug and having its forward portion formed with a disk, the periphery of which is provided with a radial locking lug adapted to be received in said notch.

SIDNEY SAUVAL SOLLEE.