G. SCHUHMANN.

GASOLENE TANK.

APPLICATION FILED MAR. 29, 1917.

1,248,172. Patented Nov. 27, 1917

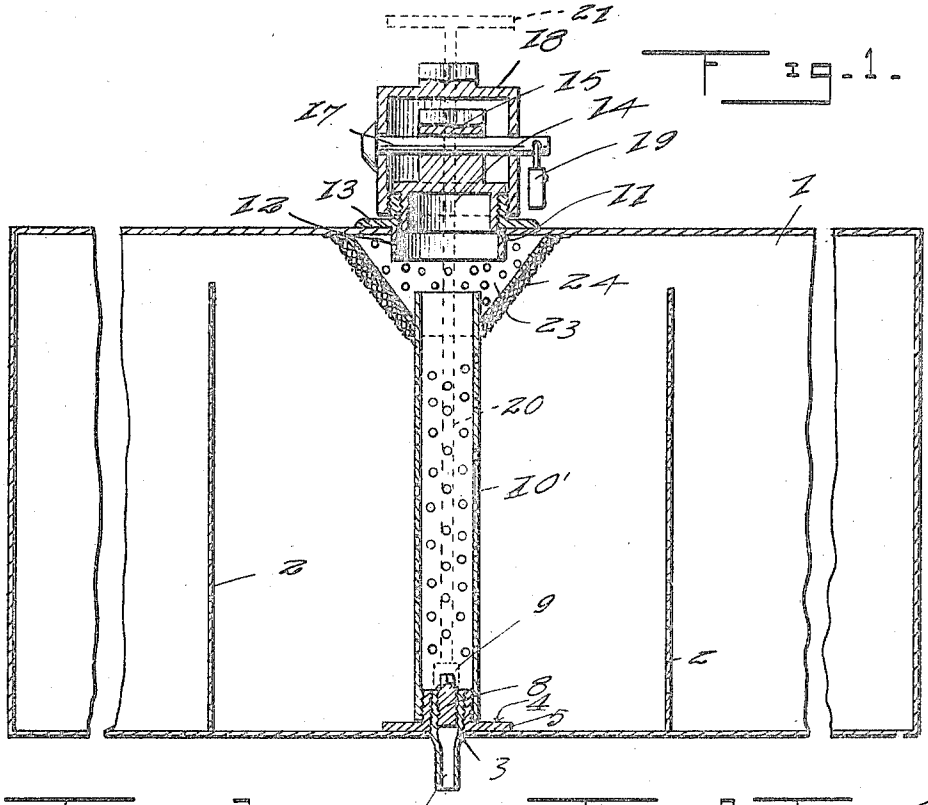



Fig. 1.

Fig. 2.

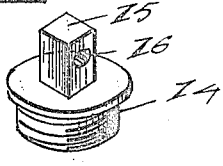



Fig. 3.

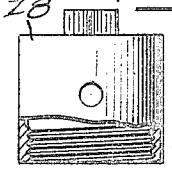



Fig. 4.

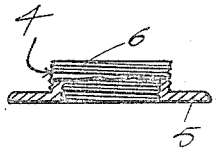
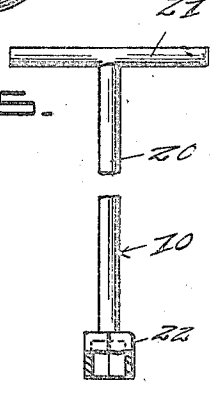



Fig. 5.




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# UNITED STATES PATENT OFFICE.

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## GASOLENE-TANK

1,248,172. Specification of Letters Patent. Patented Nov. 27, 1917.

Application filed March 29, 1917. Serial No. 158,361.

*To all whom it may concern:*

Be it known that I, GEORGE SCHUHMANN, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented certain new and useful Improvements in Gasolene-Tanks; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to a gasolene tank especially adapted for use in connection with motor vehicles and has for one of its objects the provision of a device of this character, whereby the supply of gasolene to the motor vehicle may be cut off and locked when desired, to prevent starting of the vehicle.

Another object of this invention is to provide a tank having a cut off plug, which may be readily removed and replaced within the outlet port of the tank by a suitable tool, whereby the flow of gasolene to the carbureter of the engine may be cut off when desired.

A further object of this invention is the provision of means for preventing the removal of the plug when desired to lock the motor vehicle against theft.

A still further object of this invention is the provision of a gasolene tank of the above stated character, which shall be simple, durable and efficient, and which may be manufactured and sold at a comparatively low cost.

With these and other objects in view the invention consists of the novel combination and arrangement of parts as will be hereinafter more fully described and claimed.

For a complete understanding of my invention, reference will be had to the following description and accompanying drawing, in which:

Figure 1 is a vertical sectional view of a gasolene tank, constructed in accordance with my invention;

Fig. 2 is a perspective view of the tank closing plug;

Fig. 3 is a side elevation partly in section of a cap to receive the tank closing plug;

Fig. 4 is a detail sectional view of a coupling;

Fig. 5 is a side elevation partly in section of a key for removing the cut-off plug from the tank.

Referring in detail to the drawing, the numeral 1 indicates a tank having the usual baffle plate 2 and the outlet port 3 at the bottom thereof. A coupling 4 comprising an annular flange 5 which is secured in any suitable manner to the bottom wall of the tank and surrounds the outlet port 3 an upstanding flange 6 is formed upon the coupling 4 and is internally and externally screwthreaded as clearly illustrated in Fig. 4. A gasolene pipe 7 has one end connected to the carbureter (not shown), in the usual manner and has its opposite end enlarged and internally and externally screwthreaded as shown in Fig. 1. The enlarged screwthreaded end of the pipe 7 is threaded internally within the flange 6 of the coupling 4, which permits the pipe 7 to enter the tank by way of the outlet port 3. An externally screwthreaded plug 8 is threaded within the enlarged end of the pipe 7 for controlling the outflow of gasolene from the tank 1 to the pipe 7. The plug 8 has a squared head 9 for engagement with a suitable tool 10, which will be hereinafter more fully described and which is adapted for removing and replacing the plug 8 within the pipe 7.

A perforated tube 10′ is disposed vertically within the tank 1 and has one end internally screwthreaded and threaded to the flange 6 of the coupling 4 for supporting said tube vertically within the tank. The upper end of the perforated tube 10′ terminates at a point below the upper wall of the tank and directly under an inlet port 11, which has positioned therein a collar 12, which has an annular flange 13 formed thereon which overlies the outer face of the tank as shown in Fig. 1. The collar 12 is externally and internally screwthreaded for receiving a tank closing plug 14, which has a head 15 formed thereon provided with a transverse opening 16, for receiving a pin 17. A cap 18 is threaded to the collar 12 and receives the tank closing plug 14 and has oppositely disposed apertures in the wall thereof for permitting the pin 17 to be passed through the cap and head 15 of the plug 14 to lock the cap 18 to the plug. The cap 18 is threaded to the collar 12 in an op-

posite direction from the plug 14 thereby making it impossible to remove the cap 18 from the collar 12 when the pin 17 has been inserted through the cap and the head 15 of the plug 14 and having a suitable padlock 19 passed through the aperture in the end thereof, thus, it will be seen that it is impossible to remove the cap 18 and the plug 14 to gain access to the plug 18 to remove the same so as to permit the gasolene within the tank to flow into the pipe 7. The tool 10 or key consists of a shank 20 having a suitable handle 21 formed thereon and its opposite end enlarged and squared to form a socket 22. The key or tool 10 is magnetized and after the cap 18 and plug 14 have been removed from the tank, the key is inserted therein and a socket 22 receives the head 9 upon the plug 8 and by rotating the plug 8, it is disengaged from the pipe 7 and owing to the key being magnetic, the plug may be withdrawn from the tank, permitting the free flow of gasolene from the tank 1 through the pipe 7 to the carbureter (not shown) of the engine. After the plug 8 has been removed from the pipe 7, the tank closing plug 14 may be then threaded to the collar 12. When desiring to lock the automobile against theft, the plug 8 is threaded in the pipe 7 by the tool or key 10 and the tool or key is then removed, the tank closing plug 14 is then threaded into the collar 12 and the cap 18 is threaded to the collar 12, inclosing the plug 14. The pin 17 is then inserted through the cap 18 and the head 15 of the plug 14 and a suitable padlock or other like fastener is inserted through the pin to prevent it from being withdrawn from the cap, thus it will be seen that it is impossible to gain access to the interior of the tank to remove the plug 8 from the pipe 7 and it will also be noted that the entire flow of gasolene from the tank is cut off to the pipe, thus preventing the theft of the motor vehicle.

When using the motor vehicle, the pin 17 and the cap 18 may be removed, thus obviating any unnecessary noise caused by these parts rattling.

The heads on the cap and the tank closing plug may be of any desired shape so that various types of tools may grip them to remove the cap and plug.

A conical shaped perforated plate 23 is secured to the upper end of the vertical perforated tube 10 and to the tank and is covered by a wire mesh, whereby upon pouring gasolene into the tank 1 through the inlet port 11, it will be partially filtered, which will aid in removing foreign matter therefrom.

While I have shown and described the preferred embodiment of my invention, it will be understood that minor changes in construction, combination and arrangement of parts may be made without departing from the spirit and scope of the invention as claimed.

What is claimed is:

1. A device of the character set forth comprising a tank having inlet and outlet ports, a coupling secured interiorly to the tank and surrounding the outlet port, an outlet pipe extending through the outlet port and threaded to said coupling, a plug threaded in said pipe, means for removing the plug from said pipe by way of the inlet port, and means for closing the inlet port to prevent the removal of the plug.

2. A device of the character set forth comprising a tank having inlet and outlet ports, a coupling secured interiorly to the tank and surrounding the outlet port, an outlet pipe threaded to said coupling, a plug threaded in said pipe and located interiorly of the tank, a vertical perforated tube threaded to said coupling and having its upper end disposed at a point below the inlet port, means adapted to be inserted through the inlet port and perforated tube for removing the plug from the outlet pipe, and means for closing and locking the inlet port against removal of the plug from the pipe.

3. A device of the character set forth comprising a tank having outlet and inlet ports, a coupling secured interiorly to the tank and surrounding the outlet port, an outlet pipe threaded to said coupling, a plug threaded in said outlet pipe and disposed within the tank, a perforated tube threaded to the coupling and having its upper end disposed at a point below the inlet port, a magnetic key adapted to be inserted through the inlet port and perforated tube to remove the plug from the outlet pipe, and means for closing and locking the inlet port to prevent the removal of the plug from the outlet pipe.

4. A device of the character set forth comprising a tank having outlet and inlet ports, a coupling secured to the tank interiorly thereof and surrounding the outlet port, an outlet pipe threaded to said coupling, means located within the tank for closing the outlet pipe, a vertically disposed perforated tube threaded to said coupling, means for removing and replacing the plug from the outlet pipe by way of the inlet port, a collar secured within said inlet port, a plug threaded to said collar for closing the inlet port, and means for preventing the removal of the plug from said collar.

5. A device of the character set forth comprising a tank having inlet and outlet ports, a coupling secured to the tank interiorly thereof, an outlet pipe threaded to said coupling, means for closing the outlet pipe and disposed interiorly of the tank, means for removing said means from

the pipe by way of the inlet port, a collar located within the inlet port, a tank closing plug threaded to said collar, and having an opening, a cap surrounding the plug and threaded to the collar in an opposite direction, a pin extending through the cap and aperture of the plug and adapted to receive a fastener for preventing the removal of the cap and plug from the collar.

6. A device of the character set forth comprising a tank, an outlet pipe connected to the tank, means for closing said outlet pipe and disposed within the tank, said tank having an inlet port, means for removing said means from the pipe by way of the inlet port, means for closing and locking the port, a perforated tube secured within the tank and having its upper end disposed at a point below the inlet port, a conical perforated member secured to the upper end of the tube and to the tank, and wire mesh secured to the perforated member for straining explosive fuel entering the tank by way of the inlet port.

In testimony whereof I affix my signature in presence of two witnesses.

GEORGE SCHUHMANN.

Witnesses:
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AGNES H. DOWNING.