April 14, 1925. 1,533,082

E. A. ALIG

GASOLINE BULB

Filed Dec. 4, 1924

Fig. 1.

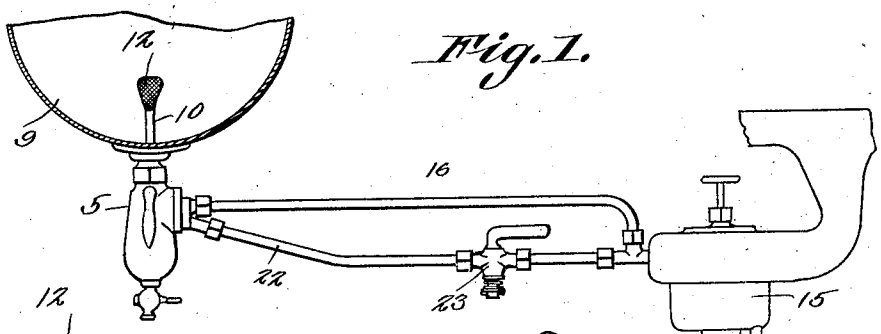


Fig. 2.

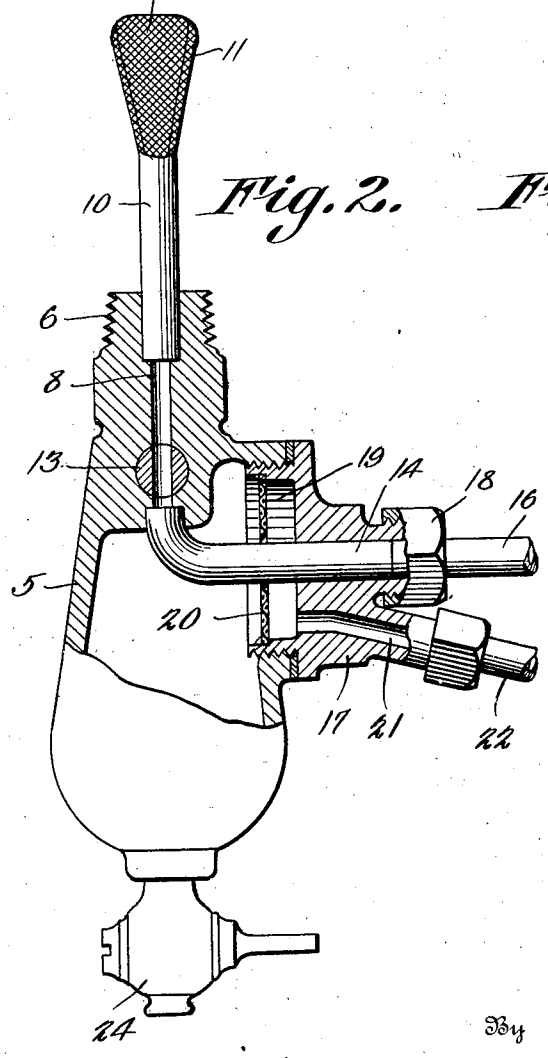
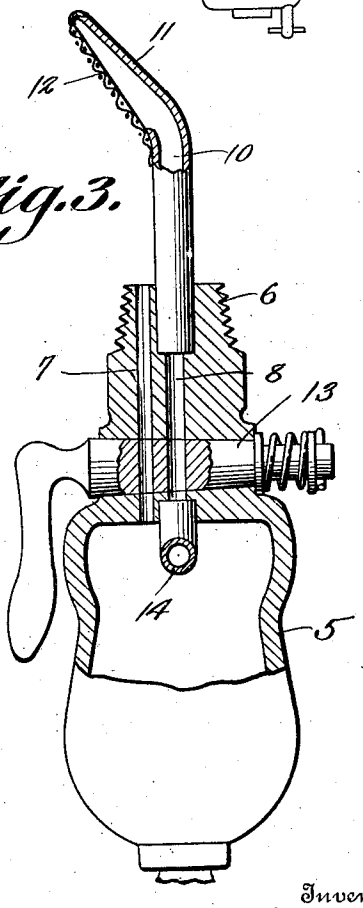


Fig. 3.



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UNITED STATES PATENT OFFICE.

ELMER A. ALIG, OF ST. JOSEPH, MISSOURI.

GASOLINE BULB.

Application filed December 4, 1924. Serial No. 753,896.

To all whom it may concern:

Be it known that I, ELMER A. ALIG, a citizen of the United States, residing at St. Joseph, in the county of Buchanan and State of Missouri, have invented a new and useful Gasoline Bulb, of which the following is a specification.

The present invention relates to a device to be employed between the gasoline supply tank and the pipe line feeding the carburetor of an internal combustion engine whereby the gasoline will cease to flow to the carburetor before the supply of gasoline in the tank is exhausted.

Another object of the invention is to provide a device of this character embodying a sediment receptacle at the bottom of the tank which will collect the sediment or foreign matter in the gasoline and insure against such foreign matter entering the carburetor to render the same inoperative.

A still further object of the invention is to provide a device of this character which may be readily and easily installed and one which will not necessitate the making of alterations in the usual construction to mount the device.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed, may be made within the scope of what is claimed, without departing from the spirit of the invention.

Referring to the drawing:

Figure 1 is a diagrammatic view disclosing the application of the device.

Figure 2 is an elevational view of the attachment, the upper portion thereof being shown in section.

Figure 3 is a front elevational view of the attachment, the upper portion thereof being shown in section.

Referring to the drawing in detail, the reference character 5 indicates the attachment which is in the form of a receptacle the same having an upper threaded section 6 whereby the device may be screwed into the usual outlet opening of the gasoline tank of a motor vehicle.

The upper portion of the device is supplied with parallel bores 7 and 8, the bore 7 having its inlet end disposed in a plane with the upper end of the device, or at a point slightly above the bottom of the tank in which it is positioned, the tank in the present showing being however indicated by the reference character 9.

Positioned within the bore 8 is a feed nozzle 10 which has an upper offset portion 11, the under portion of the nozzle being cut away to provide an inlet opening which is covered by the screen 12 to insure against foreign matter entering the pipe line to clog it and restrict the passage of fuel therethrough.

This nozzle as shown, extends an appreciable distance above the bottom of the tank so that when the level of the gasoline in the tank is below the screen 12, gasoline will of course cease to flow into the nozzle 10 and into the bore 8. A valve member indicated at 13 is positioned in the upper portion of the device and is supplied with a pair of openings adapted to register with the bores 7 and 8 to establish communication between the gasoline tank 9 and the receptacle 5 or the feed pipe 14 which is designed to normally feed gasoline to the carburetor of the vehicle, the carburetor being shown at 15.

The pipe 16 extends into the plug 17 that is positioned in one side of the receptacle 5 and has one end thereof engaging one end of the pipe 14 and held in position by means of the union 18 as clearly shown by Figure 2 of the drawing. Plug 17 is cut away as at 19 and is supplied with a shoulder to receive the screening member 20 that acts as a guard for the bore 21 formed in the plug to prevent foreign matter from entering the bore and pipe line 22 communicating therewith. Disposed within the pipe line 22 is a valve member 23 that controls the passage of fuel from the receptacle 5 to the carburetor and is only moved to establish communication between the receptacle 5 and carburetor 15 when the flow of gasoline through pipe 16 ceases.

In order that the receptacle 5 may be drained and the sediment removed therefrom, a drain cock 24 is provided at the lower portion thereof.

In the operation of the device, the nozzle 10 which is positioned so that the upper end thereof lies an appreciable distance above the bottom of the tank, will feed gasoline through the receptacle until the level of the gasoline within the tank 9 is below the entrance end of the nozzle, it being under-

stood that the nozzle 10 is arranged so that when the level has fallen below the entrance end of the nozzle, about two gallons of gasoline will be left in the tank. It is obvious that when the gasoline ceases to flow through the nozzle 10, which supplies the feed pipe 16 that in turn supplies the carburetor, the engine will cease to function.

The valve member 23 is now moved to establish communication between the receptacle 5 and carburetor through the pipe 22 whereby fuel is again fed to the carburetor 15 and the operator may now drive his car to the nearest filling station to replenish the supply of gasoline in the tank 9.

I claim:

In a device of the character described, a hollow body portion having a solid upper extremity formed with parallel bores, the upper portion of the solid portion being threaded to permit the body portion to be positioned in an opening in the bottom of a tank, a feed pipe extending into the hollow body portion and having one end thereof communicating with one of the bores, the opposite bore establishing communication between the tank and hollow body portion, a pipe extending into the body portion to carry off fluid therefrom, and a pipe extending into the first mentioned bore and terminating at a point in spaced relation with the upper end of the body portion.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

ELMER A. ALIG.

Witnesses:

J. STEWART FREUGER,

HERBERT E. REINKE.