

Oct. 16, 1934.

W. E. WILLIAMS

1,976,975

FILLING TUBE

Filed March 14, 1931

Fig. 1.

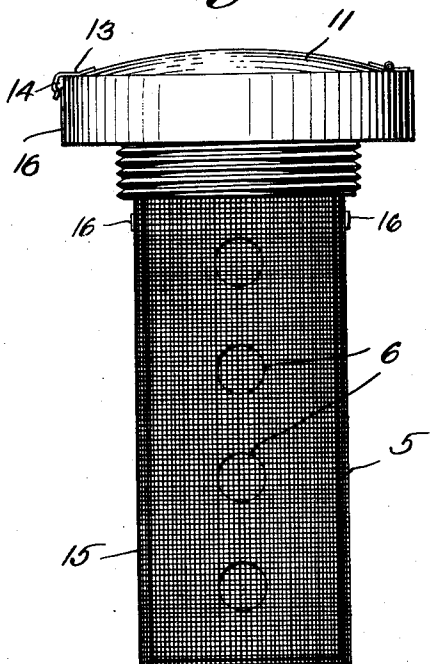


Fig. 2.

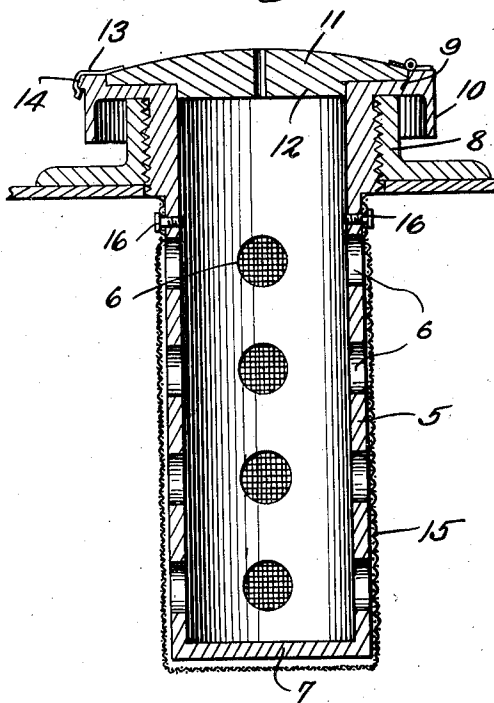


Fig. 3.

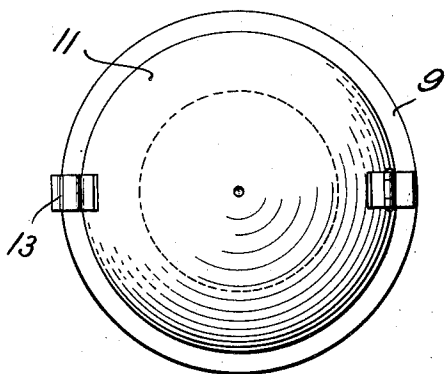
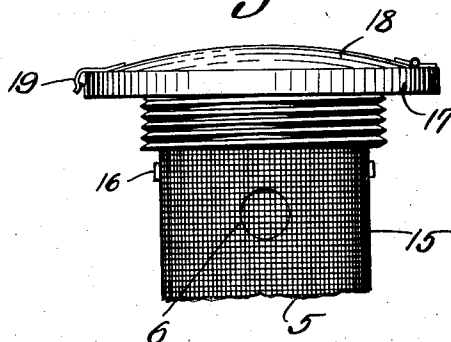


Fig. 4.



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UNITED STATES PATENT OFFICE

1,976,975

FILLING TUBE

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Application March 14, 1931, Serial No. 522,716

1 Claim. (Cl. 220—86)

This invention relates to filling tubes designed for use in connection with gas tanks of motor vehicles, the primary object of the invention being to provide means whereby the gasoline will be thoroughly strained on its passage from the usual filling hose and nozzle of a gasoline vending pump, into the tank.

An important object of the invention is the provision of a filling tube of this character which may be readily positioned in the usual filling opening of a gas tank, without the necessity of making alterations in the construction of the tank or filling opening, to install the device.

Another object of the invention is to provide a tube including a body portion and a removable straining tube, means being provided for securing the straining tube to the body portion in such a way that the strainer tube may be readily and easily removed and replaced, when it becomes necessary to clean the filling tube.

A still further object of the invention is to provide a filling tube having a hinged closure, to the end that the nozzle of a filling hose may be readily inserted in the filling tube.

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 an elevational view of a filling tube constructed in accordance with the invention.

Figure 2 is a vertical sectional view through the filling tube.

Figure 3 is a plan view of the device.

Figure 4 is an elevational view of a modified form of the invention.

Referring to the drawing in detail, the filling tube comprises a tubular body portion 5 formed with a plurality of openings 6 disposed in the side thereof, the lowermost openings being disposed in spaced relation with the bottom 7.

As shown, external threads are formed near the upper end of the body portion and cooperate with the threads of the usual filling cap ring 8, in which the filling cap of the usual gas tank is positioned.

An annular flange 9 is formed at the upper end of the body portion 5 and extends laterally therefrom, the flange 9 being provided with a depend-

ing portion 10 defining an apron. A hinged cover indicated by the reference character 11 is mounted at the upper end of the body portion, and is provided with an extension 12 fitted within the upper end of the body portion. A clip 13 is secured to the cover 11, and clips over the box 14 formed on the flange 9.

The reference character 15 designates the straining member of the tube, which is constructed of wire mesh material, the straining member being of a diameter greater than the diameter of the body portion 5, so that a space or passageway is provided between the straining member 15 and body portion 5, to permit the gasoline and foreign matter to pass to the bottom of the straining member 15. It might be further stated that the straining member is of a length greater than the length of the body portion 5, thereby providing a compartment at the lower end of the straining member for the collection of sediment.

Threaded openings are formed near the upper end of the body portion 5, and accommodate the threaded bolts 16 that extend through openings near the upper end of the straining member 15, to removably secure the straining member to the body portion.

In the form of the invention as shown by Figure 4 of the drawing, the straining member and body portion are substantially the same as that shown by Figures 1 and 2 of the drawing. In this form of the invention a flange 17 is formed at the upper end of the body portion, and is so constructed that it will fit against the tank with which the filling tube is used, to seal the opening.

The cover which is of the hinged type, is indicated by the reference character 18, and is secured by means of the clip 19.

From the foregoing it will be obvious that the threaded bolts 16 may be readily removed and the straining member slid from its position over the body portion of the device, and the sediment which collects at the lower end of the straining member, may be removed from the straining member. The straining member may now be readily replaced over the body portion, and secured by means of the threaded bolts 16.

It will also be noted that a filling tube of this character may be positioned in lieu of the usual filling cap of a motor vehicle gasoline tank, to the end that the gasoline will be thoroughly filtered before it passes into the vacuum tank of the vehicle, thereby eliminating the possibilities of clogging the tubes of the vacuum tank, to the minimum.

I claim:

A filling tube for positioning in the threaded filling opening of a gasoline tank, comprising a main tube having a bottom and having a plurality of openings formed in the tube, the lowermost openings being spaced from the bottom of the tube, an annular flange formed at the upper end of the tube and overlying the upper edge of

the filling opening, a hinged cover closing the upper end of the filling tube, a straining member constructed of foraminous material housing the main tube and connected to the main tube, said straining member being spaced from the side and bottom of the main tube, providing a compartment for foreign matter.

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10	85
15	90
30	95
25	100
30	105
35	110
40	115
45	120
50	125
55	130
60	135
35	140
70	145
75	150