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GASOLINE STRAINER AND LINT CATCHER

Filed May 9, 1927

Fig. 1.

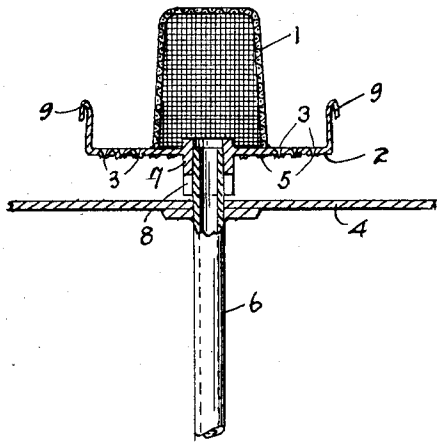


Fig. 2.

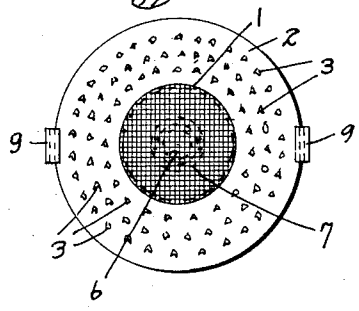
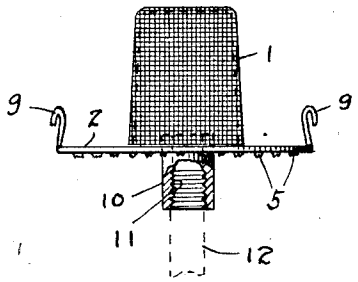


Fig. 3.



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GASOLINE STRAINER AND LINT CATCHER.

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My invention relates to improvements in gasoline strainers and lint catchers and it consists in the combinations, constructions and arrangements hereinafter described and claimed.

An object of my invention is to provide a gasoline strainer and lint catcher which is removably mounted on the feed pipe from a gasoline tank and which not only has means for straining all of the gasoline as it passes into the feed pipe but also has novel means for covering a wide area adjacent to the feed pipe inlet, this area being serrated or jagged for providing prongs or small projections which will catch lint floating in the gasoline as the gasoline surges back and forth past the device. This swinging is due to the fact that the tank is carried by an automobile or truck, which is moving over uneven ground. In this way the lint is prevented from clogging the feed pipe and also from entirely covering the strainer. Moreover, it provides a positive means for catching and retaining floating lint, which cannot be done with the usual type of strainer.

A further object of my invention is to provide a device of the type described which is extremely simple in construction and which is durable and efficient for the purpose intended.

Other objects and advantages will appear in the following specification and the novel features of my invention will be particularly pointed out in the appended claims.

My invention is illustrated in the accompanying drawing forming a part of this application, in which

Figure 1 is a vertical section through the device showing it operatively applied to a gasoline feed pipe;

Figure 2 is a top plan view of the device; and

Figure 3 is a side elevation partially in section showing a modified form of the device.

In carrying out my invention I provide a cup-shaped strainer 1, preferably made of a screen having a fine mesh and I mount this strainer upon a disc 2 and secure it thereto by solder or any other suitable fastening means. The surface of the disc 2 is provided with a number of openings 3 and these openings are formed by forcing a small tool through the disc, this tool striking up a jagged edge which surrounds the opening. It is the jagged edges around each of the openings which forms the means for catching lint floating in the gasoline tank 4. It is well known that the gasoline will surge back and forth in the tank as the automobile or truck travels over the uneven roadbed and this swishing of the fluid through the openings 3 causes the floating lint to become impinged upon the jagged edges 5 of the openings 3. This lint is prevented from gaining access to the feed pipe 6 and is also prevented from clogging up the screen or strainer 1.

The means for securing the device to the feed pipe 6 comprises a sleeve 7 which is bell-shaped or conical-shaped, as shown in Figure 1 and which has slots 8 extending partially throughout its length for giving the sleeve a springy action, which will cause it to frictionally engage with the feed pipe 6 and thus be securely held in place.

The disc 2 is preferably disposed a slight distance above the bottom of the tank 4 so as to catch the lint congregating around the feed pipe. I provide ears for the disc 2 and these ears permit the disc to be grasped as it is applied to the feed pipe 6 or moved therefrom.

From the foregoing description of the various parts of the device, the operation thereof may be readily understood.

The device is designed to be secured to a feedpipe whether the pipe extends downwardly from the tank or upwardly therefrom. The disc 2 in reality acts as an aid for the screen 1 in that it catches a great portion of the lint which would otherwise find its way to the screen, or if the screen were not provided, to the entrance of the feed pipe 6. The disc therefore prevents the screen from becoming clogged, and thus it will be seen that the device assures a constant flow of fluid to the feed pipe, which fluid will be strained from all foreign substance.

In Figure 3 I show a modified form of the device which is identical to the form already described, with the exception that the sleeve 10 is threaded internally at 11 and is adapted to be screwed upon a feed pipe 12. This form of the device provides a more positive connection between the strainer and the feed pipe. In all other respects the device functions exactly the same as the form already described, and therefore needs no further comment.

I claim:

1. A device of the type described comprising a disc having jagged portions for catching and retaining foreign substance floating in a gasoline tank and a strainer carried by said disc.

2. A device of the type described comprising a cup-shaped strainer, a disc secured to said strainer and having jagged projections on its surface and a spring sleeve carried by said disc.

3. A device of the type described comprising a screen for covering the inlet opening of a feed pipe, a perforated disc secured to said screen, the edges of the perforations being jagged and a sleeve carried by said disc for securing the device to a gasoline feed pipe.

4. A device of the type described comprising a member having jagged portions for catching and retaining foreign substance floating in a gasoline tank, and a strainer carried by said member.

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