A. A. EDEY.

GASOLENE STRAINER.

APPLICATION FILED DEC. 1, 1913.

1,095,494. Patented May 5, 1914.

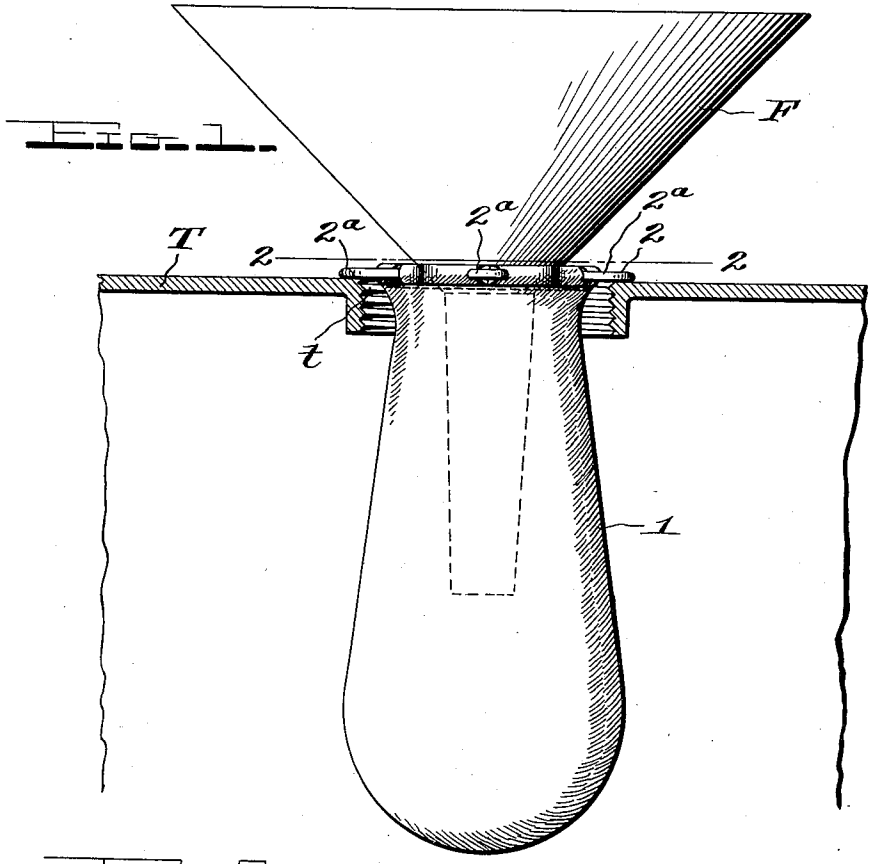
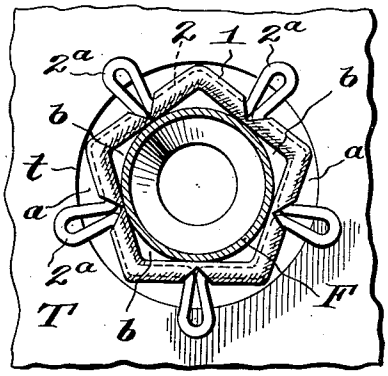
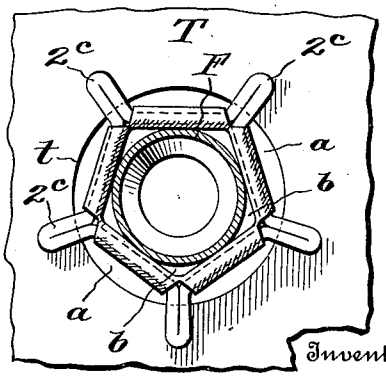


Fig. 1.

Fig. 2.

Fig. 3.





Witnesses

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GASOLENE-STRAINER.

1,095,494. Specification of Letters Patent. Patented May 5, 1914.

Application filed December 1, 1913. Serial No. 804,019.

To all whom it may concern:

Be it known that I, AUBREY A. EDEY, a citizen of the United States, residing at Mobile, in the county of Mobile and State of Alabama, have invented certain new and useful Improvements in Gasolene-Strainers; and I hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form part of this specification.

This invention is a novel portable filter or strainer particularly designed for use in filling liquid fuel tanks of automobiles, but also useful for other purposes in the arts.

The invention in brief comprises a strainer bag and a frame attached to the mouth of the bag and adapted to distend and suspend the bag in position within the tank while the frame is supported upon the top of the tank and over the filling opening thereof; and said frame being so shaped that vents will be provided exterior to the bag and frame at the mouth of the bag, and also around the pipe or the shank of the funnel through which the liquid is admitted into the bag. The strainer can be folded into very compact space when not in use.

I will describe the invention as illustrated in the accompanying drawings in which—

Figure 1 is a view illustrating the strainer suspended in a tank in position for use. Fig. 2 is a top plan view of Fig. 1 with the funnel in section. Fig. 3 is a similar view showing a slight modification of the strainer frame.

In the drawings, Figs. 1 and 2, 1 designates a strainer or filter bag, which is preferably made of chamois skin and of any desired size, it is preferably longer than wide and closed at bottom. The top or mouth of said bag is connected to a supporting and distending frame 2 which is preferably made of non-corrosive metal, and may be made by bending a wire or strip of metal into the desired shape, or by stamping the metal into the desired shape. Said frame is polygonal in contour, and is shown as pentagonal. In the form shown in Fig. 1 from each side member of the frame projects an outwardly extended finger 2^a, which may be formed by stamping or bending the metal upon itself, these fingers lying in substantially the same plane as the frame. The frame without the fingers is preferably somewhat smaller in diameter than the diameter of the filling opening *t* in the tank T with which the strainer is used, as indicated in the drawings; but the fingers 2^a extend beyond the periphery of the ring and mouth of bag and will engage the top of the tank adjacent the opening, as indicated in Fig. 1, so that the ring cannot be passed through such opening. The upper end or mouth of the bag is secured to the frame by sewing, or other suitable means, and the fingers project outside the mouth of the bag as shown.

In the example shown in Fig. 3 the fingers 2^a project at the angles of the frame, or junctions of the side members thereof instead of from the center of the sides as in Fig. 1; but the two frames are essentially alike in function and effect.

It will be observed by reference to Figs. 1 and 2 that the strainer bag can be inserted through the opening *t* in the tank, and will be suspended therein by the fingers 2^a engaging the top of the tank. It will be seen by reference to Fig. 2 that air spaces *a* are left between the mouth of the strainer bag and the sides of the opening *t*, such spaces being formed by the angles of the frame; and air spaces *b* are left between the mouth of the bag and the funnel or pipe F, which is inserted into the mouth of the filter, to admit liquid into the filter. The said air spaces permit air to freely escape from the tank and bag while the liquid is being introduced thereinto.

The size of the strainer and the frame can be varied to suit the different tanks having different sized filling openings, and the shape of the frame could be varied in different ways so as to leave spaces for air to escape from the strainer, and from the tank, in filling the latter.

What I claim is:

1. A strainer for the purpose described comprising a frame adapted to support a bag suspended within the opening of a tank, and a flexible bag connected to said frame and adapted to be suspended therefrom, said frame being so shaped as to leave exterior air spaces between the mouth of the bag and sides of the filling opening of the tank, and also leave interior air spaces between the filling pipe or funnel and the mouth of the bag.

2. A strainer for the purpose specified comprising a polygonal-sided frame pro-

vided with radially projecting fingers on its exterior side adapted to support the frame in position over the filling opening of a tank, and a flexible bag having its mouth attached to said frame and distended thereby, said frame providing exterior air spaces between the mouth of the bag and the sides of the opening exterior to the bag, and also providing interior air spaces between the inner edge of the mouth of the bag and the filling pipe or funnel.

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

AUBREY AUGUSTUS EDEY.

Witnesses:

P. J. GOODMAN,

N. D. CLARKE.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."