L. W. SHORT.

GASOLENE STRAINER.

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1,087,692.

Patented Feb. 17, 1914.

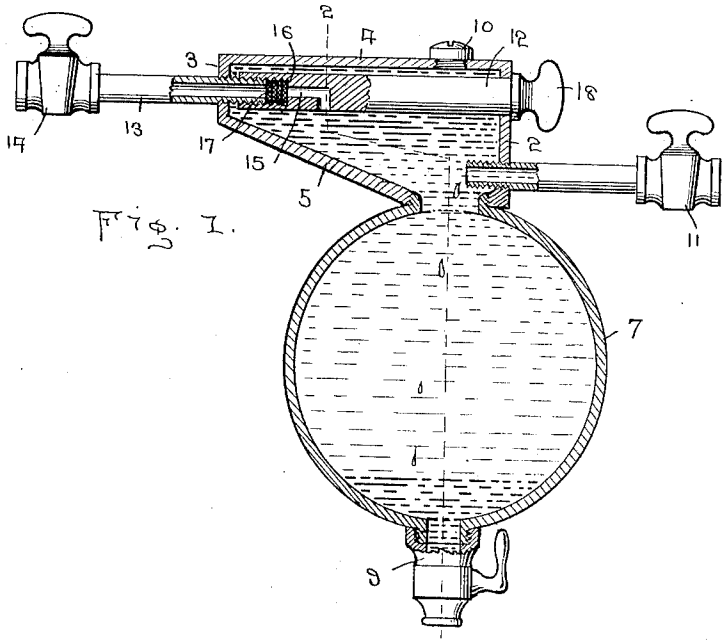


Fig. 1.

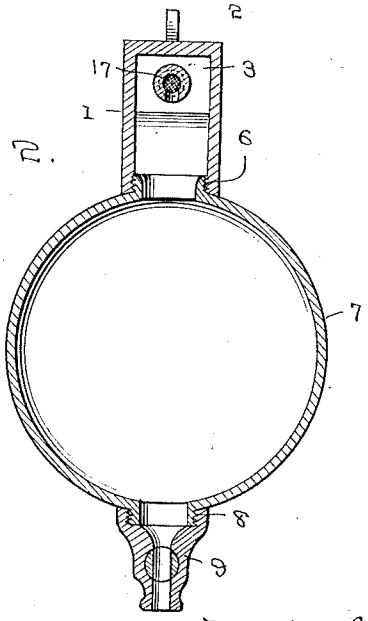


Fig. 2.

Witnesses

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LIEL W. SHORT, OF BOSTON, MISSOURI.

GASOLENE-STRAINER.

1,087,692. Specification of Letters Patent. Patented Feb. 17, 1914.

Application filed June 18, 1913. Serial No. 774,421.

To all whom it may concern:

Be it known that I, LIEL W. SHORT, a citizen of the United States, residing at Boston, in the county of Barton and State of Missouri, have invented certain new and useful Improvements in Gasolene-Strainers; and I 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 engine attachment, and particularly to separators or filters for gasolene engines.

One of the principal objects of my invention is to provide a separator which will purify the gasolene before it reaches the carbureter.

Another object thereof is to provide means for easily cleaning the parts of the separator.

A further object is to provide a separator that may be cleaned without removing it from its connection with the engine.

A still further object is to provide an attachment of the class described that will be simple, durable, and efficient in operation and inexpensive to manufacture.

These and other objects may be attained by means of the construction, combination and arrangement of parts, hereinafter more fully described and claimed and illustrated in the accompanying drawings, in which,

Figure 1, is a vertical longitudinal sectional view of my invention, and, Fig. 2, is a vertical transverse sectional view taken on the line 2—2 of Fig. 1.

Referring to the drawing in which like characters of reference indicate like parts throughout the several views; the boxing of the separator comprises vertical side walls 1, a vertical rear wall 2, a shorter vertical front wall 3, a top wall 4, and an inclined bottom wall 5.

The bottom of the boxing is provided with a screw threaded opening to receive a screw threaded nipple 6, on a hollow ball 7, which is provided opposite the nipple 6 with a second smaller nipple 8 in which is threaded a drain cock 9. The top wall of the boxing is provided with a threaded opening adapted to be normally closed by the screw 10.

The pipe leading from the gasolene tank is threaded into the rear wall 2 of the boxing near the lower end thereof, and adjacent the nipple 6, and is provided at a short distance from the boxing, with a cut off cock 11. A thumb pipe 12 is seated in an opening near the upper end of the wall 2, and projects into the boxing at a short distance from the top wall 4 thereof. The front end of the pipe 12 is provided with a screw threaded bore to receive the screw threaded end of a pipe 13, which is provided with a cut off cock 14, and which leads from the boxing to the carbureter of the engine. The screw threaded bore communicates with the interior of the boxing through the medium of a reduced bore 15, which for a portion of its length runs in a horizontal direction and then bends downwardly at right angles to form an opening in the pipe 12 on the lower side thereof.

Interposed between the end of the pipe 13, and a shoulder 16, formed by the connection of the large and smaller bores in the pipe 12, is a plurality of mesh screens 17 through which the gasolene passes as it goes from the boxing to the carbureter, and which collect particles of dirt to prevent their passage into the carbureter.

The gasolene coming from the tank, fills the ball 7, and the housing, and the dirt and water will settle through the opening in the nipple 6, down to the bottom of the ball 7 where it will gather as indicated by the dark lines in Fig. 1, adjacent the drain cock 9. However any dirt that does not settle to the bottom of the ball will be caught by the screens 17 as the gasolene passes to the carbureter. It will be noticed that the bottom 5 of the boxing is inclined downwardly toward the ball and the nipple 6 has its upper inner edge rounded, so that no dirt or other foreign substance can be collected on the bottom. As is seen, the opening in the nipple 6, is comparatively small so that the rush of gasolene coming from the tank cannot stir up the dirt gathered at the bottom of the ball.

When it is desired to clean the device, the stop cocks 11 and 14 are turned off, the drain cock 9 turned on, and the screw 10, removed from the top 4 on the boxing whereby the gasolene contained in the boxing and the ball, will drain out carrying with it the dirt and water collected in the latter. The device may then be rinsed with gasolene if so desired. In order to clean the screens 17, the pipe 12 is unscrewed from the pipe 13 by means of the thumb nut 18, carrying with

it the screens which may be removed and cleaned and the pipe replaced in its operative position.

It will be noted that by this construction, my device may be cleaned without removing the same from its connection with the carbureter and gas tank, and that there will be no danger of continually agitating the dirt collected in the ball, thus providing that the gasolene in the boxing be pure.

Although I have described a preferred construction of my invention, I reserve, and may exercise the right to make such changes in the construction, combination and arrangement of parts, as do not depart from the spirit of the invention, and the scope of the appended claims.

Having thus fully described my invention what I claim as new and desire to secure by Letters-Patent is,

1. A device of the class described providing a boxing, a hollow ball communicating therewith, means for admitting gasolene into the boxing, a thumb pipe in said boxing and provided with a screw threaded bore communicating with said boxing through a smaller bore, an outlet pipe extending through said boxing and threaded into the threaded bore of said thumb pipe, and a plurality of screens interposed between the end of said outlet pipe and said smaller bore for purifying the gasolene.

2. A device of the class described providing a boxing, said boxing having vertical side walls, a horizontal top wall, and an inclined bottom wall, an inlet pipe secured to said boxing and adapted to admit gasolene thereto, said inlet pipe being approximately on a line with the lower end of said inclined wall, a hollow ball secured to said boxing and communicating therewith at a point between said inlet pipe and lower end of said inclined wall, a thumb pipe in said boxing, an outlet pipe extending through said boxing and threaded into said thumb pipe, the latter provided with a bore communicating with said outlet pipe and said boxing, and a plurality of screens secured in said bore.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

LIEL W. SHORT.

Witnesses:
J. L. Box,
F. M. Steelman.

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