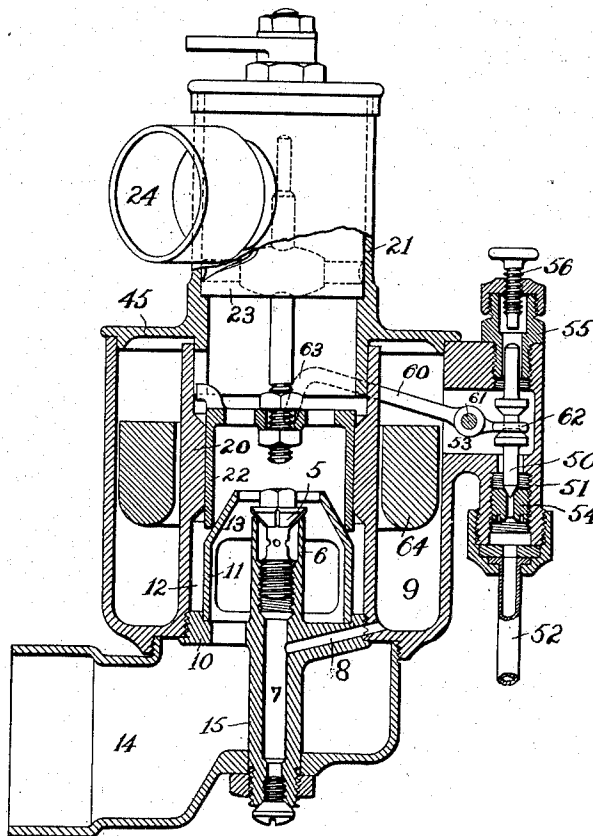


L. P. FOSNOT.
 CARBURETER FOR EXPLOSIVE ENGINES.
 APPLICATION FILED JULY 10, 1907.

909,075.

Patented Jan. 5, 1909.



Louis P. Fosnot,
 Inventor

Witnesses
 D. M. Stewart
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by *[Signature]*
 Attorney

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UNITED STATES PATENT OFFICE.

LOUIS P. FOSNOT, OF READING, PENNSYLVANIA, ASSIGNOR, BY MESNE ASSIGNMENTS, TO
READING STANDARD COMPANY, A CORPORATION OF PENNSYLVANIA.

CARBURETER FOR EXPLOSIVE-ENGINES.

No. 909,075.

Specification of Letters Patent.

Patented Jan. 5, 1909.

Original application filed September 13, 1906, Serial No. 334,368. Divided and this application filed July 10, 1907.
Serial No. 382,978.

To all whom it may concern:

Be it known that I, LOUIS P. FOSNOT, a citizen of the United States, and a resident of the city of Reading, in the county of Berks and State of Pennsylvania, have invented certain new and useful Improvements in Carbureters for Explosive-Engines, of which the following is a specification.

My invention relates particularly to carbureters adapted for motor cycle use, and it consists in certain improvements in construction hereinafter fully described in connection with the accompanying drawings and the novel features of which are specifically pointed out in the claim.

The drawing is a partly sectional elevation of a carbureter embodying my invention in preferred form.

An ordinary spraying device for gasolene or other hydrocarbon liquid, is indicated at 5, located in a central tube 6 of the carbureter and communicating through suitable conduits 7, 8, with a gasolene chamber 9. As shown this central tube 6 rises from a perforated or spoked plate 10 which screws into the lower end of the mixing chamber cylinder hereafter described, and it is loosely surrounded by a partition ring 11 carried by said plate 10. This partition ring forms an annular outer air-chamber 12 and an annular inner air-chamber 13 both communicating with a lower air-inlet chamber 14 which is carried by a depending extension 15 of the central tube 6.

The mixing chamber cylinder as shown is formed by a lower main portion 20 and an upper outlet portion 21, the former of which is provided with a vertically movable cylindrical cut-off valve 22 in addition to the sprayer 5 and partition ring 11 already mentioned, while the latter is provided with a rotary cylindrical throttle valve 23 arranged to regulate the volume of fuel gas discharged through the side outlet 24 therefrom, the particular construction and coöperative arrangement of these parts, as shown, being fully described and claimed in my original application, Serial No. 334,368, filed September 13, 1906, of which the present application is a division.

The gasolene chamber 9, as shown, is an annular chamber surrounding the mixing cyl-

inder 20 and formed integral therewith, the separately formed upper cylindrical portion 21 being fastened to the lower cylindrical portion 20 by means of a suitably secured flange 45 arranged to cover said gasolene chamber.

The supply of gasolene to the chamber 9 is controlled as usual by a needle valve 50. This valve as shown is mounted in a vertical conduit 51, connected to a supply tube 52 and communicating at 53 with the chamber 9. To provide for nicely adjusting this valve its point is seated in a ring 54 which is adjustable vertically in a screw-threaded portion of the conduit 51, while the upper portion of its stem is guided in a screw-cap 55 and its vertical lift is regulated by an adjusting screw 56 as indicated. To provide for the automatic opening and closing of the valve as required I employ a lever 60 pivoted intermediately at 61 and having its short end 62 engaging the collared stem of the valve while its semi-circular inner portion is carried half way around the mixing cylinder 20 and has its ends 63 arranged to contact with an annular float 64 in the gasolene chamber 9 so as to be lifted by the latter when said chamber is properly filled, and thereby closing the needle valve which is normally held open by said lever.

What I claim is:—

In a carbureter a hydrocarbon chamber with a float therein, an interiorly screw-threaded supply conduit having a lateral outlet to said hydrocarbon chamber and a supply-tube connecting-end, an exteriorly screw-threaded valve-seat ring adjustably located within said conduit below said outlet, a valve seating on said adjustable ring and having a collared stem extending above said outlet, an adjustable stop to limit the opening movement of said valve, and a pivoted lever extending through said outlet, to the valve stem, and operated by said float to automatically close said valve, substantially as set forth.

In testimony whereof, I affix my signature, in the presence of two witnesses.

LOUIS P. FOSNOT.

Witnesses:

WILLIAM G. SCHAEFFER,
D. M. STEWART.