April 19, 1927. 1,625,516

F. H. BARGER

CARBURETOR

Filed Feb. 18, 1925

Fig. 1.

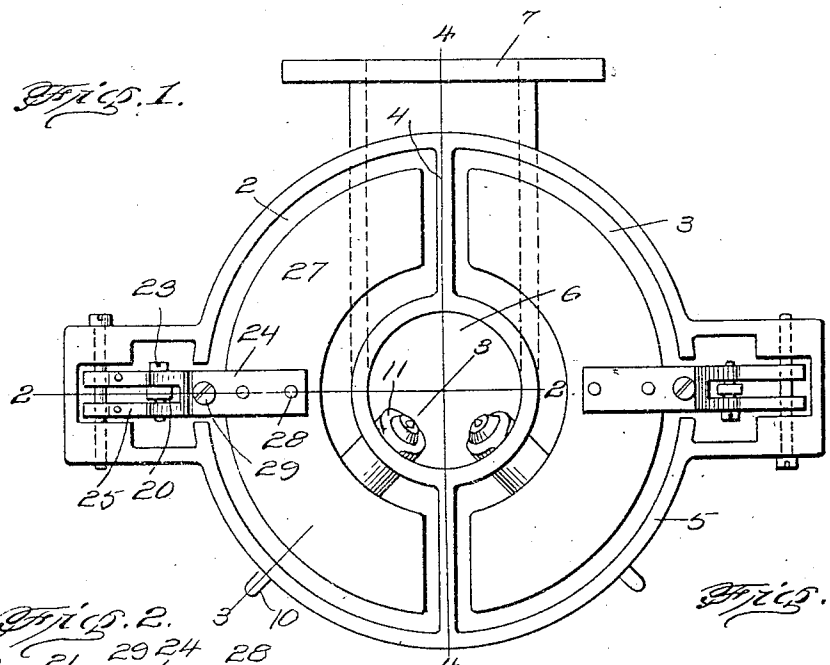


Fig. 2.

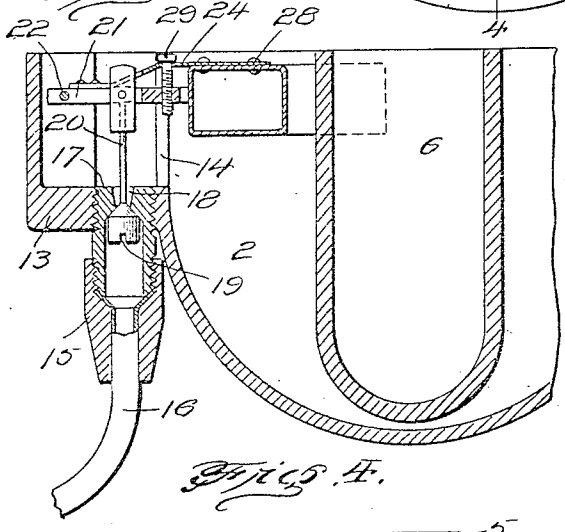


Fig. 3.

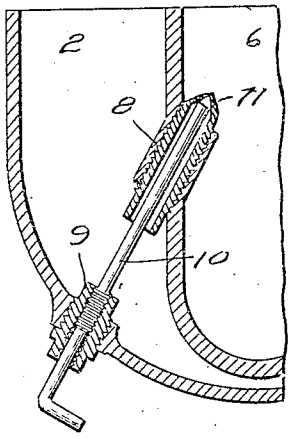
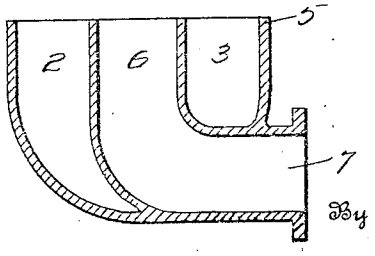


Fig. 4.



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UNITED STATES PATENT OFFICE.

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CARBURETOR.

Application filed February 18, 1925. Serial No. 10,036.

My invention pertains to carburetors, and consists in the improvement hereinafter described and definitely claimed.

In the accompanying drawing forming part of this specification:

Figure 1 is a top plan view of the carburetor fuel bowl embodying the features of my invention.

Figure 2 is a vertical section, taken therethrough, substantially on the line 2—2 of Figure 1.

Figure 3 is a detail vertical section through the bowl, taken substantially on the line 3—3 of Figure 1, and

Figure 4 is a vertical transverse section on a reduced scale, taken substantially on the line 4—4 of Figure 1.

Referring to the drawing in detail, it will be seen that the bowl is indicated at 5, and is provided with two fuel compartments 2 and 3, of identical construction, separated by a partition 4, and a mixing compartment 6, which is provided with a suitable air intake 7. Nipples 8 extend through the wall of the mixing chamber 6, thus communicating this chamber with the two compartments 2 and 3. An internal threaded nipple 9 is provided in each compartment 2 and 3 respectively, in axial alignment with the adjacent nipple 8, so that a needle valve 10 may be threaded through the nipple 9, and the pointed end thereof associated with the restricted opening 11, in the nipple 8. It will be seen, therefore, that these needle valves 10 may be adjusted, so as to regulate the amount of fuel which may be delivered from the compartments 2 and 3 to the chamber 6.

An extension 13 is provided on each compartment, and communicates therewith through opening 14. Suitable coupling means 15 is associated with each extension 13, for the reception of the fuel line 16. One portion 17 of each coupling 15 is provided with a restricted opening, forming a valve seat 18, with which a valve 19 is associated, having a stem 20. A lever 21 is pivoted, as at 22, in each extension 13, being slotted at its pivoted end to receive the upper end of the rod 20, which is pivoted therein by means of a screw or the like 23. A spring plate 24 is provided with bent legs 25, fixed to the lever 21 at its upper side and adjacent its slotted end, and is fixed to the float 27 in the adjacent compartment by rivets 28 or other suitable means, the intermediate portion of the plate being spaced above the lever. A screw 29 is extended through the intermediate portion of the plate 24 and threadedly engaged with the lever 21, so that the distance from the lever 21 of the end of the spring plate fixed to the float may be adjusted, and thus the desired level of the fuel in the compartment may be regulated.

It will thus be seen that the compartments 2 and 3 will be filled with fuel at the desired level, depending on the adjustment of screws 29. By proper manipulation of the valves 10, the proper mixture of these fuels may be delivered to the chamber 6, or by closing one valve and opening the other, only one fuel will be allowed to flow into the mixing chamber 6.

It is thought that the construction, operation, and advantages of this carburetor bowl will be appreciated by those skilled in the art without a more detailed description thereof. It is desired, however, to point out that various changes in the details of construction, and in the combination and arrangement of parts may be resorted to without departing from the spirit or scope of the invention as hereinafter claimed or sacrificing any of its advantages.

Having thus described my invention, what I claim as new is:

1. A carburetor comprising a receiving fuel bowl having in a bottom portion thereof a fuel intake orifice, a lever fulcrumed in said bowl and disposed above said orifice, a valve for controlling said orifice, said valve arranged to seat upwardly and having a stem connected to the lever, a float in the said bowl, a spring strip having end portions fixedly connected to the lever and the float and also having an intermediate portion spaced above the portion of the lever adjacent to the float, and a headed screw extending downwardly through and engaging with its head the intermediate portion of the spring strip and threaded in the lever.

2. A carburetor comprising a fuel receiving bowl having in a bottom portion thereof a fuel intake orifice, a lever fulcrumed in the said bowl and disposed above said orifice, a valve controlling said orifice, said valve arranged to seat upwardly and having a stem connected at the intermediate point of its length to the lever and extending above the lever, a vertically movable float in the fuel receiving bowl, a spring strip having a bifurcated end portion straddling the upwardly extending portion of the valve stem

and fixedly connected to the lever and arranged above the lever and also fixedly connected to and arranged above the float and having an intermediate portion spaced above the portion of the lever adjacent to the float, and a headed screw extending downwardly through and engaging with its head the intermediate portion of the spring strip, and threaded in the lever.

3. In a carburetor and in combination, a fuel chamber, a vertically swingable lever in said chamber, an upwardly seating valve for controlling the inlet to said chamber having a stem connected at an intermediate point of its length to the lever and extending above the lever, a float, a spring strip having a bifurcated end portion straddling the upwardly extending portion of the valve stem and fixedly connected to and arranged above the lever and also fixedly connected to and arranged above the float and having an intermediate portion spaced above the portion of the lever adjacent to the float, and a headed screw extending downwardly through and engaging with its head the intermediate portion of the spring strip and threaded in the lever.

4. In a carburetor and in combination, a fuel chamber, a vertically swingable lever in said chamber, an upwardly seating valve for controlling the inlet to said chamber having a stem connected to the lever, a float, a spring strip having end portions fixedly connected to the lever and the float and also having an intermediate portion spaced above the portion of the lever adjacent to the float, and a headed screw extending downwardly through and engaging with its head the intermediate portion of the spring strips and threaded in the lever.

In testimony whereof I affix my signature.

FRED H. BARGER.