

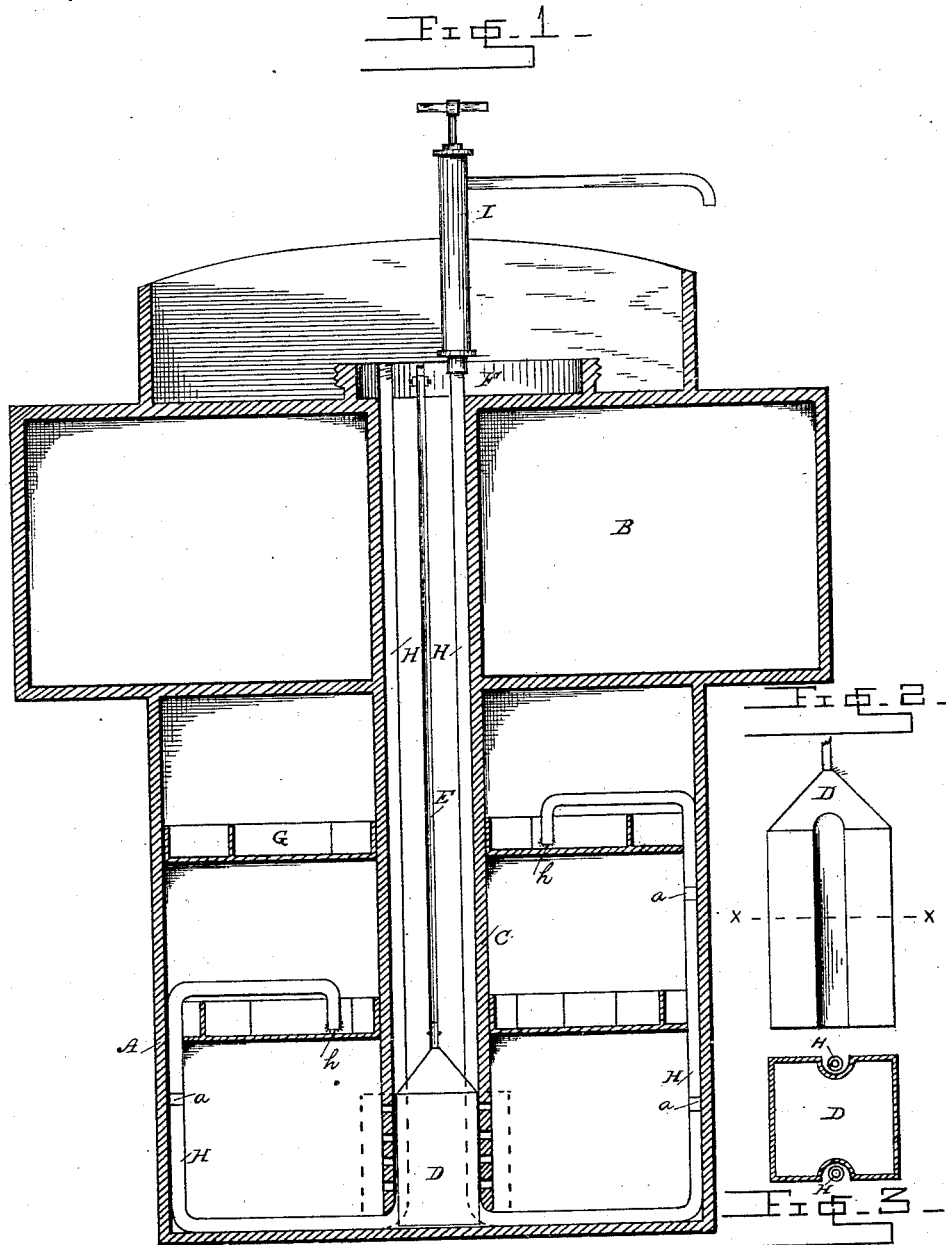
(No Model.)

R. S. LAWRENCE.

CARBURETOR.

No. 342,445.

Patented May 25, 1886.



WITNESSES:

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UNITED STATES PATENT OFFICE.

ROBERT S. LAWRENCE, OF WASHINGTON, DISTRICT OF COLUMBIA.

CARBURETOR.

SPECIFICATION forming part of Letters Patent No. 342,445, dated May 25, 1886.

Application filed January 20, 1886. Serial No. 189,177. (No model.)

To all whom it may concern:

Be it known that I, ROBERT S. LAWRENCE, a citizen of the United States, residing at Washington, in the District of Columbia, have invented a certain new and useful Improvement in Carburetors; and I do 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.

My invention relates to mechanism for cleansing the distributing-pans of carburetors of residuum from gasoline and of other deleterious substances.

Heretofore, so far as I am aware, no means have been devised for removing non-evaporating substances which gather in the bottoms of carburetor-pans which do not entail the necessity for perforating the tank for the entrance of the clearance-pipes. Any perforation of the tank is highly objectionable, owing to the extreme liability of the escape of gasoline at the joint formed in such perforation, and therefore it is of the utmost importance that the tank should have the fewest possible openings.

By my invention, which is applicable only to such carburetors as are provided with a float-well, I can put a clearance-pipe in communication with a distributing-pan without perforating the tank for that purpose.

My invention consists in providing a clearance-pipe for each pan in the tank by placing the pipe on the inner side of the float-well, with its upper end located above the top of the reservoir, and its lower end passing out through an opening in the side of the well and communicating with the pan.

In the accompanying drawings, which show so much of the carburetor shown and described in my Letters Patent No. 340,221, dated April 20, 1886, as is necessary to illustrate my present invention, Figure 1 is a vertical section of the machine with the clearance-pipes in place, the latter being in elevation. Fig. 2 is an elevation of the float. Fig. 3 is a cross-section of the float, taken on the line *xx*, Fig. 2.

Referring to the drawings, A represents the tank of a carburetor; B, the reservoir; C, the

float-well; D, the float; E, the float-rod; F, the float-well hood, and G the overflow distributing-pans.

H H represent the clearance-pipes, made of any suitable material, but preferably of copper, about one-half inch in diameter. Each of these pipes (there being one for each overflow-pan) is so formed that its lower portion will extend along the bottom of the tank, up its side, overhang the pan, and dip down to near the bottom of the pan, the mouth of the pipe being provided with a wire screen, *h*, to prevent the entrance of excelsior or other material with which the pan is packed. The pipe is banded, as at *a*, to the side of the tank. The other portion of the pipe passes through a slot in the lower end of the float-well, as shown, and extends upwardly along the inner side of the well, to which it is secured by solder, and out into the float-well hood.

In order that the float may work freely in the well when the pipes are in place, I groove its sides, as clearly shown in Figs. 2 and 3.

I have shown the outer end of each pipe screw-threaded, and one of them provided with a suction-pump, I; but as it is evident that other means may be employed to produce the requisite suction, I do not wish to limit my invention in this particular.

While I have chosen to illustrate a machine having two overflow distributing-pans, it is to be understood that my invention is equally applicable to other machines having a greater or less number of such pans, as in that case, when the pipes are arranged in the manner shown, it is only requisite that the float be grooved in accordance with the number of pipes employed.

The operation of cleansing the pans by the mechanism above described is so apparent as to require no description.

Having described my invention, what I claim as new and useful, and desire to secure by Letters Patent, is—

1. In a carburetor, the combination, with the tank and a float-well, and one or more distributing-pans in said tank, of one or more clearance-pipes secured to the inner side of the well, the upper end of the pipe extending above the top of the reservoir, and the lower

end passing out through an opening in the side of the well and communicating with a pan, for the purpose set forth.

2. In a carburetor, the combination, with
5 the tank and a float-well, and one or more distributing-pans in said tank, of one or more clearance-pipes secured to the inner side of the well, the upper end of the pipe being located in the float-well hood, and the lower
10 end provided with a wire screen passing out

through an opening in the side of the well and communicating with the inner side of a pan, for the purpose set forth.

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

ROBERT S. LAWRENCE.

Witnesses:

E. HOFFMAN,

G. W. BALLOCH.