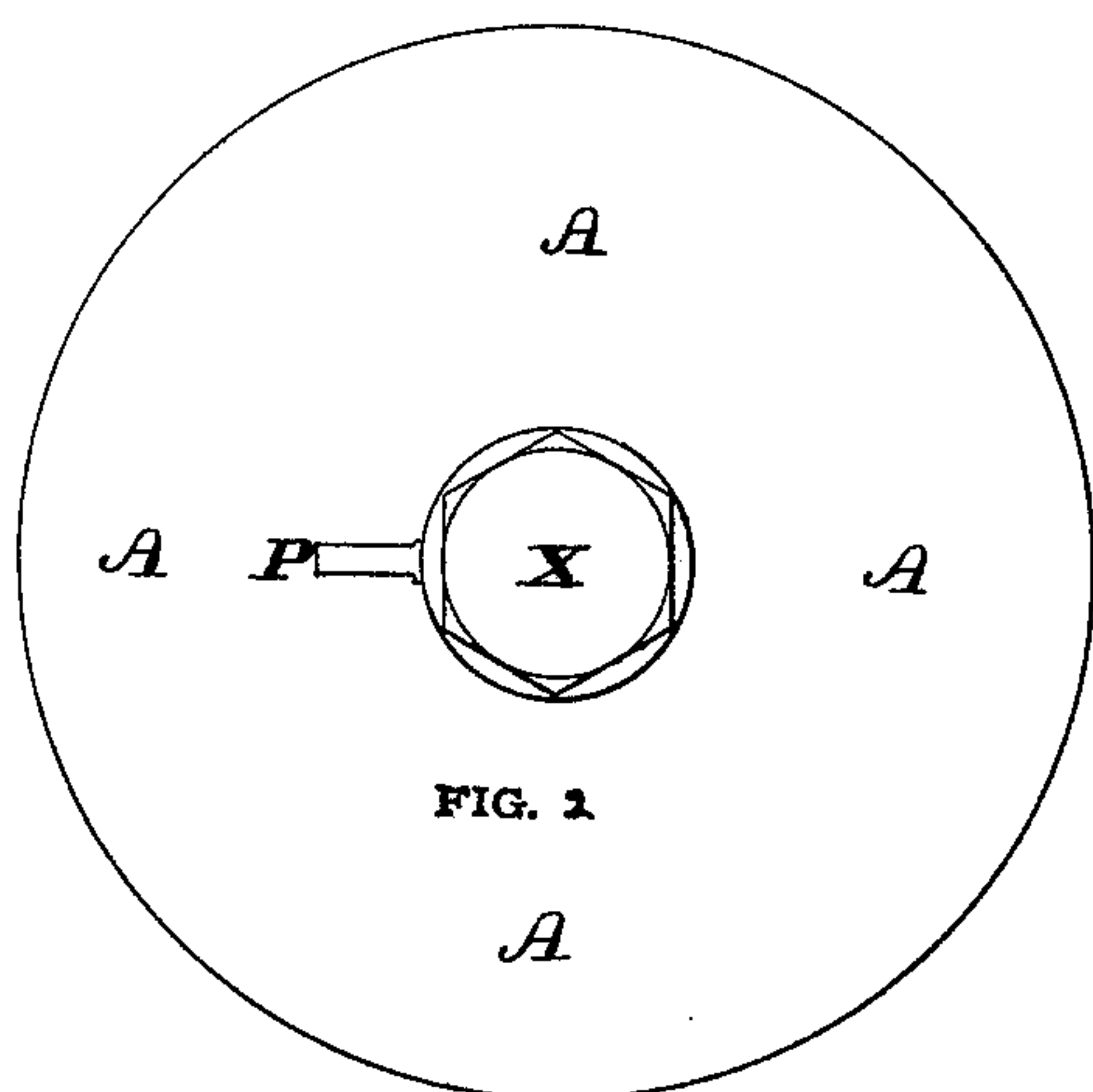
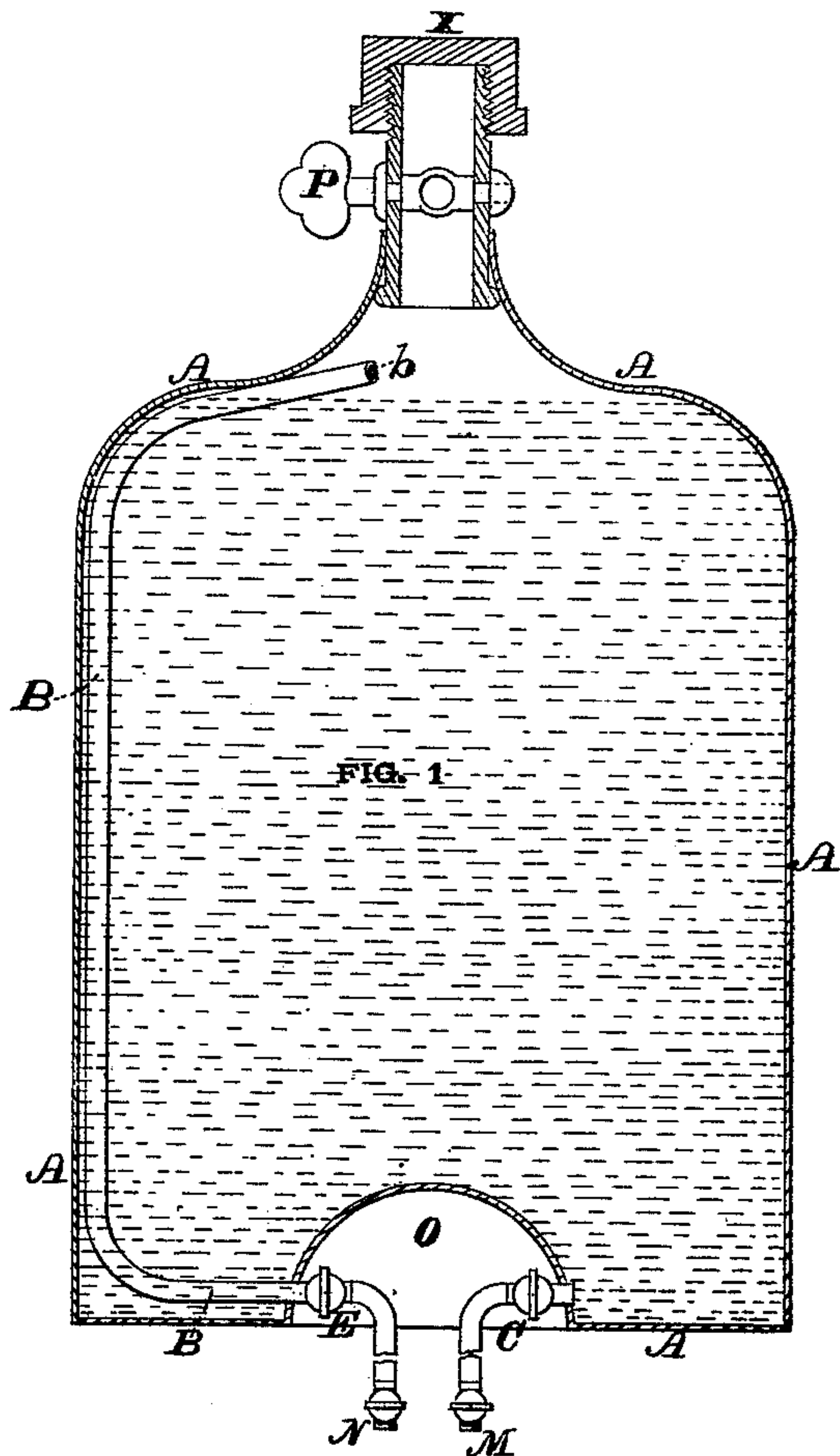


E. H. COVEL.

SAFETY FILLING CANS FOR CARBURETERS

No. 176,600.

Patented April 25, 1876.



WITNESSES

*A. Moore*  
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# UNITED STATES PATENT OFFICE.

EDWARD H. COVEL, OF NEW YORK, N. Y.

## IMPROVEMENT IN SAFETY-FILLING CANS FOR CARBURETERS.

Specification forming part of Letters Patent No. **176,600**, dated April 25, 1876; application filed November 15, 1875.

*To all whom it may concern:*

Be it known that I, EDWARD H. COVEL, of the city, county, and State of New York, have invented a new and valuable Improvement in Safety-Cans for Filling Carbureters with Hydrocarbon Fluid; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a central vertical section of my can. Fig. 2 is a plan view of the same.

This invention has relation to means for applying hydrocarbon fluid to gas-carbureters; and it consists in the construction and novel arrangement of a hydrocarbon-fluid can, generally adapted to naphtha or gasoline fluid, and arranged to empty its contents into the carbureter in such a manner that there shall be no escape of inflammable vapor or gas during the operation of filling. The naphtha or gasoline is passed into the carbureter by means of a direct supply and exhaust connection with a smooth and easy flow, as hereinafter described.

Referring to the drawings, the letter A designates the can, usually constructed with its upper portion conical. C represents the inlet-tube, through which the carbureter is filled with the hydrocarbon fluid, and at the same time conducts the fluid hydrocarbon out of can A into the supply-chamber of a gas-carbureter. Said pipe is provided with a cock or other device, and a short flexible hose, at the end of which is a cock or coupling, said coupling being capable of being connected to the supply-pipe of a gas-carbureter in a secure manner. B is a vapor-tube, placed on the inside of can A for convenience, and extending from near the bottom of can A to the upper part of said can at *b*. The lower end of said pipe passes through the wall of can A into recess O, and is provided with cock E or other device, and a short flexible hose or pipe, at

the lower end of which is a cock, N, and a coupling capable of being connected with the vent, pipe, or outlet of a gas-carbureter. P is a cock, provided in the inlet-pipe of the can A. X is a cap, to firmly secure the end of the inlet of the filling-tube of the can. O is a recess, somewhat sunken or depressed in the bottom and side of the can.

The operation is as follows: The can is filled with hydrocarbon fluid through the inlet-pipe of the can, and the cock P is then closed, and cap X is firmly secured onto the end of the filling-inlet. The can is then set on the top of the carbureter to be supplied with hydrocarbon fluid, and the connections M and N are then made and firmly secured to the carbureter. Both of the cocks M and N are then opened and the fluid hydrocarbon will flow out of the can through pipe C, and the vapor generated, by the agitation of the fluid, will pass up tube B into can A by suction, caused by the vacuum created by the withdrawal of the fluid hydrocarbon from the can A. After the can A has been discharged of its fluid hydrocarbon-cocks M and N are closed, and the can removed from the building, thus preventing the escape of any vapor into the room where the carbureter is located, either from the carbureter or the can.

Having thus fully set forth the nature and merits of my invention, what I claim as new is—

A safety-filling can for carbureters, provided with a filling-nozzle, having a screw-cap, X, or a stop-cock, P, and provided at the bottom with a recess, O, through the sides of which projects the exit-pipe C, having cock, and the vapor-pipe B, having stop-cocks, said vapor-pipe extending up the inside of the can, and opening near its top, as described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

EDWARD H. COVEL.

Witnesses:

JNO. D. PATTEN,  
H. S. MILLER.