

No. 613,167.

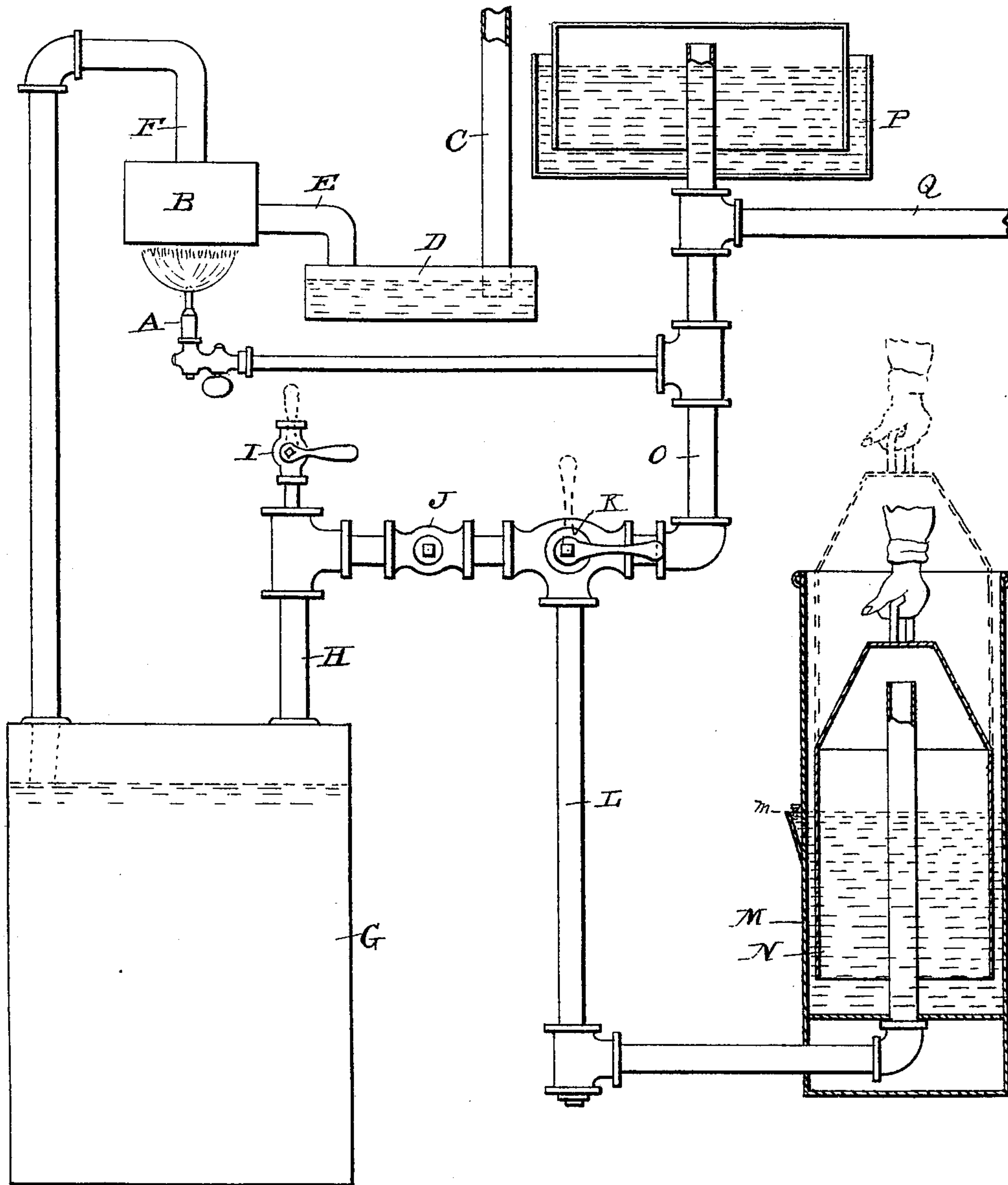
F. L. MARTENETTE.

Patented Oct. 25, 1898.

CARBURETER.

(Application filed Nov. 2, 1897.)

(No Model.)



Witnesses
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UNITED STATES PATENT OFFICE.

FRANK L. MARTENETTE, OF CHICO, CALIFORNIA.

CARBURETER.

SPECIFICATION forming part of Letters Patent No. 613,167, dated October 25, 1898.

Application filed November 2, 1897. Serial No. 657,187. (No model.)

To all whom it may concern:

Be it known that I, FRANK L. MARTENETTE, a citizen of the United States, residing at Chico, in the county of Butte and State of California, have invented certain new and useful Improvements in Carbureters, of which the following is a specification.

My invention relates to improvements in carbureters in which air is charged with hydrocarbon, and has for its object to provide means for storing the gas so produced as well as producing it. This object I accomplish in the manner and by the means hereinafter more fully described in detail and particularly pointed out in the claims, reference being had to the accompanying drawing, which is a vertical sectional view of my invention.

In my invention, by means of the heat produced by the flame of an ordinary gas-burner A, placed directly under a drum B, I cause a draft of air into and through a pipe C, opening from the outer air through a water-trap D, pipe E, and drum B, through pipe F, connected with a hydrocarbon-generator G of any of the ordinary kinds containing gasoline or other oils of high specific gravity, from which generator G it passes into a pipe H, provided with a connection I with the outer air, which may be opened and closed at pleasure, and provided also with a check-valve J to prevent the return of gas through the pipe H. The pipe H ends in a three-way valve K. Said valve K is also connected with a pipe L, which is carried into a cylinder M, through a hole near its bottom and to its center, where it is bent upward at a right angle and extends upward through the center of the bottom of a cylinder N to within a short distance of the top of said cylinder M. Cylinder N is closed at the top and open at the bottom and is loosely inclosed by cylinder M. Cylinder M is provided with an opening *m*, closed with a screw-plug, to admit oil or water to form a trap for pumping gas. From the third way of the valve K a pipe O, with which the burner A is connected, extends up to and into a gasometer P of any of the forms used to store gas. Said pipe O is also connected below the tank P with the supply-pipe Q, by which the gas is furnished for use.

The operation of my invention is as follows: After lighting the burner A the valve K is

closed to the pipe O, and thereby opens the way through the pipe C, trap D, pipe E, drum B, and pipe F, generator G, pipe H, valve I, (if needed,) check-valve J, and pipe L into cylinder N. Now raise cylinder N by hand or other power to the top of cylinder M, which will draw a current of air heated by the gas burning at burner A through pipe C, trap D, pipe E, drum B, and pipe F into the generator G, where it is transformed into gas, through pipe H, where it is reduced to proper quality by the suction of air through valve I, and through check-valve J, valve K, and pipe L into cylinder N. Shift valve K, closing pipe H and opening pipe O, and press down cylinder N. This forces the gas into gasometer P, where it is retained until needed, when it is used through pipe Q. Repeat this process until gasometer P is filled. Burner A is also a test-burner to determine the quality of each charge of gas.

When the storage-tank is empty, of course to start the carbureter either a connection must be made with burner A from the ordinary gas-pipe or other means must be used to supply the necessary heat until some gas is made.

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

1. A carbureter consisting of a drum opening through a pipe to the outer air, said drum arranged above a hydrocarbon-generator, a pipe connecting said drum and said generator, a hollow cylinder closed at the top provided with a water seal, a pipe connecting the interior of said cylinder and said generator, said pipe provided with a three-way valve, a check-valve and near said generator a connection with the outer air, and a pipe from said three-way valve to a gasometer, said pipe connected with the supply-pipe, and a burner under said drum, substantially as shown and described.

2. A carbureter consisting of a drum provided with a pipe open to the outer air, through a water-trap, a pipe connecting said drum with a hydrocarbon-generator, a generator, two cylinders one within the other, the outer containing water, a pipe communicating between the open space in the inner cylinder above the water in the outer and said generator,

said pipe provided with a three-way valve, a check-valve and near said generator, with a connection with the outer air, a pipe connecting said three-way valve with a gasometer, said pipe connecting with the supply-pipe and with a burner under said drum, substantially as shown and described.

3. A carbureter consisting of a hydrocarbon-generator, provided with a connection
10 with the outer air by a pipe connected with a drum arranged above said generator, said drum having an opening to the outer air, a gasometer with a water seal, a pipe connecting said gasometer and said generator, said

pipe provided with a three-way valve, a regulating-valve and near said generator a connection with the outer air, a pipe from said three-way valve to a storage-tank, said pipe provided with a connection with the supply-pipe and a burner under said drum, substantially as shown and described. 15 20

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

FRANK L. MARTENETTE.

Witnesses:

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