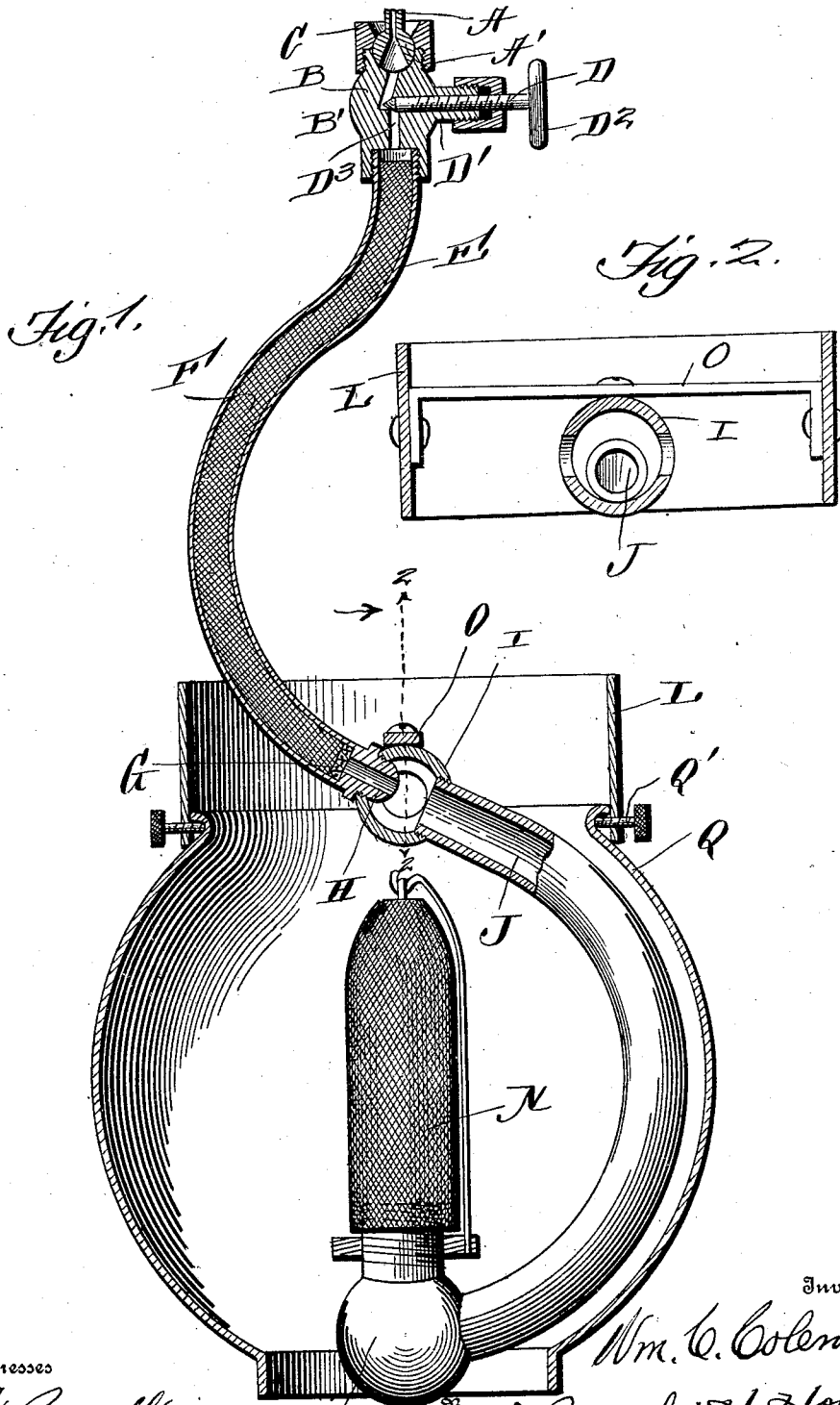


No. 841,667.

PATENTED JAN. 22, 1907.

W. C. COLEMAN.
GASOLENE LAMP.
APPLICATION FILED MAY 7, 1906.



Witnesses

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WILLIAM C. COLEMAN, OF WICHITA, KANSAS.

GASOLENE-LAMP.

No. 841,667.

Specification of Letters Patent.

Patented Jan. 22, 1907.

Application filed May 7, 1906. Serial No. 315,584.

To all whom it may concern:

Be it known that I, WILLIAM C. COLEMAN, a citizen of the United States, residing at Wichita, in the county of Sedgwick and State of Kansas, have invented certain new and useful Improvements in Gasolene-Lamps; 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in gasolene-lamps adapted to be used in connection with mantles; and the object of the invention is to produce a simple and efficient device of this nature in which gasolene generated in a suitable filter provided with a strainer is adapted to pass through a generating-tip, whereby the hydrocarbon gas and oxygen, as they pass through the mixing-chamber to the burner-cap, the heat of the flame from the burner increases the vaporizing of the fuel by the superheating of the mixing-chamber.

The invention consists in other details of construction and arrangements of parts, which will be hereinafter fully described and then specifically defined in the appended claim.

Figure 1 is a vertical sectional view of my improved lamp, parts being shown in elevation; and Fig. 2 is a vertical sectional view taken on line 2 2 of Fig. 1.

Reference now being had to the details of the drawings by letter, A designates a pipe through which gasolene is fed from any suitable source of supply and is provided with a rounded head A', seated in a concaved recess B in the valve-casing B', and C designates a threaded cap adapted to hold said pipe A in said recess of the valve-casing. The valve-casing is provided with a needle-valve D, passing through a suitable apertured boss D' and has a hand-wheel D² fixed thereto. The inner end of the valve is pointed and is adapted to regulate the flow of gasolene through the duct D³ in said valve-casing.

E designates a generating-tube which has threaded connection with the valve-casing and is preferably curved, as shown in the drawings, whereby portions of the same will be positioned over the burner beneath, whereby the heat rising therefrom may be utilized in the vaporizing of the gasolene.

F designates a filter which is positioned within said tube and made up of wire-mesh and through which the vaporized gas is filtered, and a strainer G is positioned upon a shoulder near the lower end of the generating-tube and through which the vaporized gas passes, making exit through the generating-tip H into the air-chamber I, having an opening I' therein, through which air is supplied to the vaporized gas.

J designates a Bunsen tube communicating at one end with said mixing-chamber and is semicircular in outline and terminating in a burner-base K, carrying a mantle N, the upper end of which is positioned directly underneath the air-mixing chamber, thereby furnishing heat for thoroughly vaporizing the gasolene as it mixes with the air upon entering the Bunsen tubes. L designates a globe-supporting band which is secured to the cross-bar O, fastened at its ends to said band; and Q designates a globe held by means of the thumb-screws Q' to said band.

From the foregoing it will be noted that by the provision of a burner made in accordance with my invention a simple and efficient means is afforded whereby the gasolene may be thoroughly vaporized by passing through the curved generating-tube to receive the heat as it rises from the burner and which is thoroughly mixed with the heated air as it enters the Bunsen tube, the gasolene being thoroughly filtered and strained before being mixed in readiness for use.

What I claim is—

A gasolene-lamp comprising a curved generating-tube, the ends of which are in vertical alignment, a globe-supporting band, a cross-piece secured to said band, an open-ended shell fixed to said cross-piece and provided with an aperture therein, the lower end of said generating-tube terminating in a threaded flanged jet engaging a threaded aperture

in said shell, a filter and screen within said
generating - tube, a semicircular outlined
Bunsen having threaded connection with the
walls of an aperture in said shell and in direct
5 alinement with said jet and spaced apart
therefrom, and a burner underneath said
shell, as set forth.

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

WILLIAM C. COLEMAN.

Witnesses:

F. K. HAMMERS,
R. H. JOHNSON.