

W. C. COLEMAN.

BRACKET LAMP.

APPLICATION FILED MAR. 24, 1910.

989,767.

Patented Apr. 18, 1911.

FIG. 1.

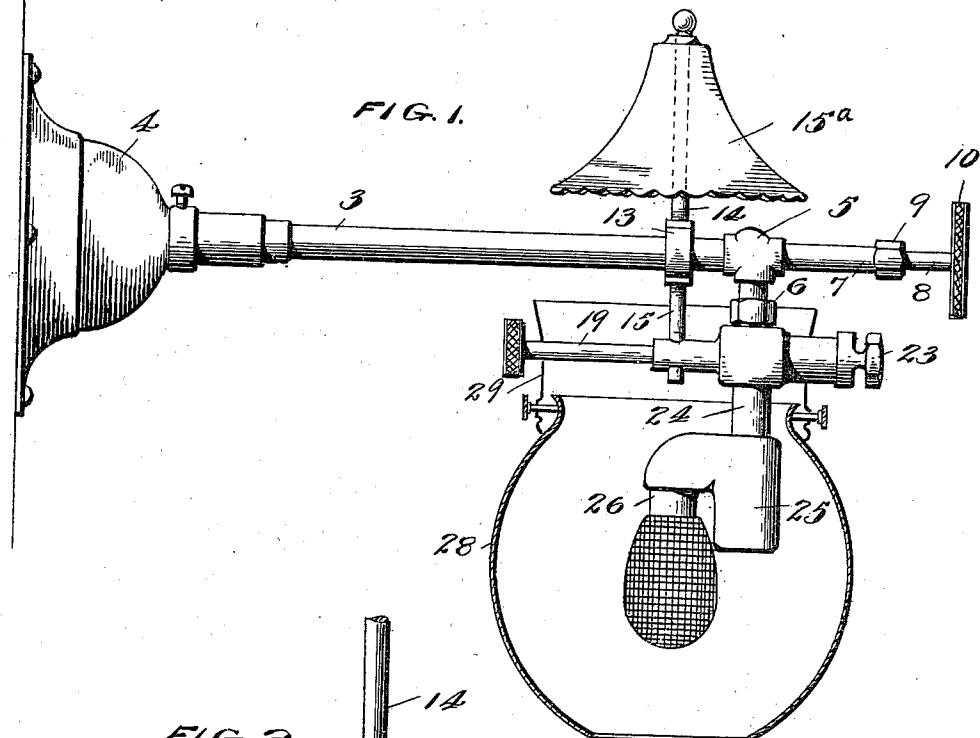
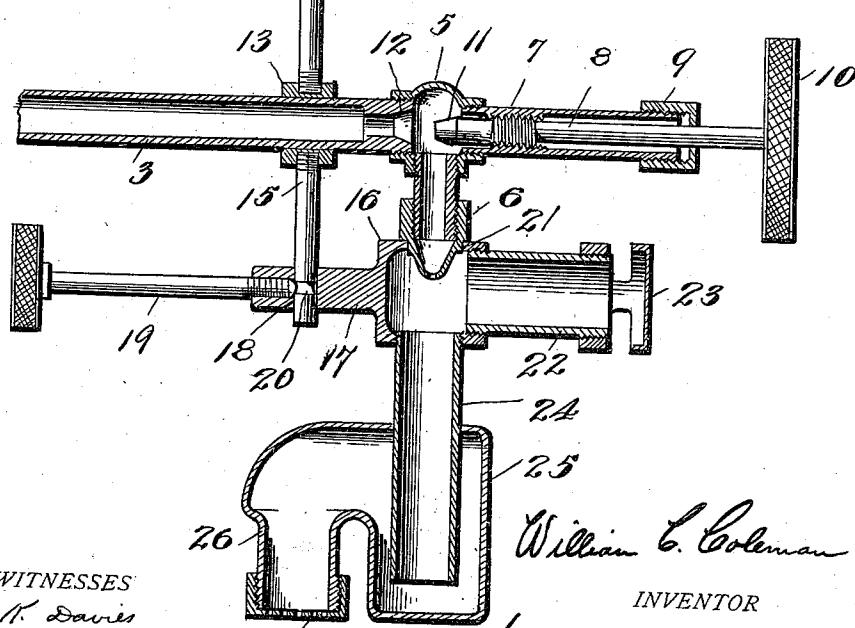


FIG. 2.



WITNESSES

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## BRACKET-LAMP.

989,767.

Specification of Letters Patent. Patented Apr. 18, 1911.

Application filed March 24, 1910. Serial No. 551,359.

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 5 State of Kansas, have invented new and useful Improvements in Bracket-Lamps, of which the following is a specification.

The present invention relates to lamps, and more particularly that type in which 10 liquid fuel or illuminant is vaporized and mixed with air before burning.

The primary object is to provide a bracket structure of a simple, novel and effective character.

15 In the drawings:—Figure 1 is a side elevation of the lamp, with the globe and globe support illustrated in section. Fig. 2 is a detail sectional view on an enlarged scale through the vaporizer, air mixing means and 20 burner.

Similar reference numerals designate corresponding parts in all the figures of the drawings.

In the embodiment disclosed, a horizontal 25 vaporizing tube 3 is employed, having at one end a suitable supporting shell 4, by means of which said tube can be mounted on a wall or other support. The other end of the tube is provided with a head 5, from 30 which depends a vapor discharge nozzle 6. A valve casing 7, disposed in line with the tube, has rotatably mounted therein, a valve stem 8 that passes through a packing gland 9, and has an exposed knurled head 10. This 35 stem carries at its inner end a suitable valve 11 that operates against the direction of flow of vapor, and is movable into and out of coaction with a valve seat 12 that is thus interposed between the vaporizing tube and 40 the nozzle.

A collar 13 is fitted upon the outer end portion of the vaporizing tube, and carries an upstanding stem 14 and a depending stem 15. The upstanding stem 14 supports a suitable 45 bell 15<sup>a</sup>. A head 16 is provided with an outstanding finger 17 having an opening 18, through which the stem 15 passes, and a set screw 19, threaded into the end of the finger 17, has its inner end engaging in a groove 50 or socket 20 formed in the stem 15, so that the said head 16 is supported by the stem. This head has in its upper side, an opening 21 that detachably receives the nozzle 6, and it is furthermore provided with an outstanding tube extension 22 forming an air inlet. 55

The outer end of said tube extension supports an adjustable air regulating cap 23. The head 16 furthermore carries a depending air and vapor conducting tube 24, that extends through the top and nearly to the bottom of an air and vapor mixing chamber 25 carried by said tube. This chamber 25 is provided with one or more depending burners 26 having perforated caps 27, and constituting mantle supports. 60

In this structure, the liquid illuminant passing through the tube 3, will be vaporized by the heat from the burner, and will discharge through the nozzle 6, into the tube 24. Air will be entrained through the extension 22, and the air and vapor will consequently pass into the mixing chamber 25, from whence it will discharge at the burners 27, where it will be burned. The mantles supported from these burners, will consequently be made incandescent. The said mantles are preferably inclosed in a suitable globe 28 that is carried by a supporting ring or sleeve 29. This sleeve is mounted on the set screw 19 and the extension 22. 65

70 From the foregoing, it is thought that the construction, operation and many advantages of the herein described invention will be apparent to those skilled in the art, without further description, and it will be understood that various changes in the size, shape, proportion and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the 75 advantages of the invention. 90

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

In a lamp, the combination with a substantially horizontal vaporizing tube, of 95 means located at one end for supporting the same, a depending nozzle carried by the other end, a substantially horizontal valve controlling the passage of vapor from the tube to the nozzle, and having a handle at one end of the tube, a straight air and vapor conducting tube connected at its upper end to the nozzle and having an upper air inlet, a mixing chamber connected to the lower end of the tube, a burner connected to the upper end of the mixing chamber and located alongside the same beneath the vaporizing tube, and on the side of the air and vapor conducting tube, opposite the valve handle, a collar surrounding the vaporizing 100 105 110 tube extension 22 forming an air inlet.

tube directly above the burner, and having depending and upstanding stems in line therewith, means carried by the upper end of the air and vapor conducting tube for detachably supporting the same from the depending stem, and a bell mounted on the upstanding stem.

In testimony whereof, I have hereunto set my hand, in the presence of two subscribing witnesses.

WILLIAM C. COLEMAN.

Witnesses:

GEO. D. SHIELDS,  
D. S. COLEMAN.

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."

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