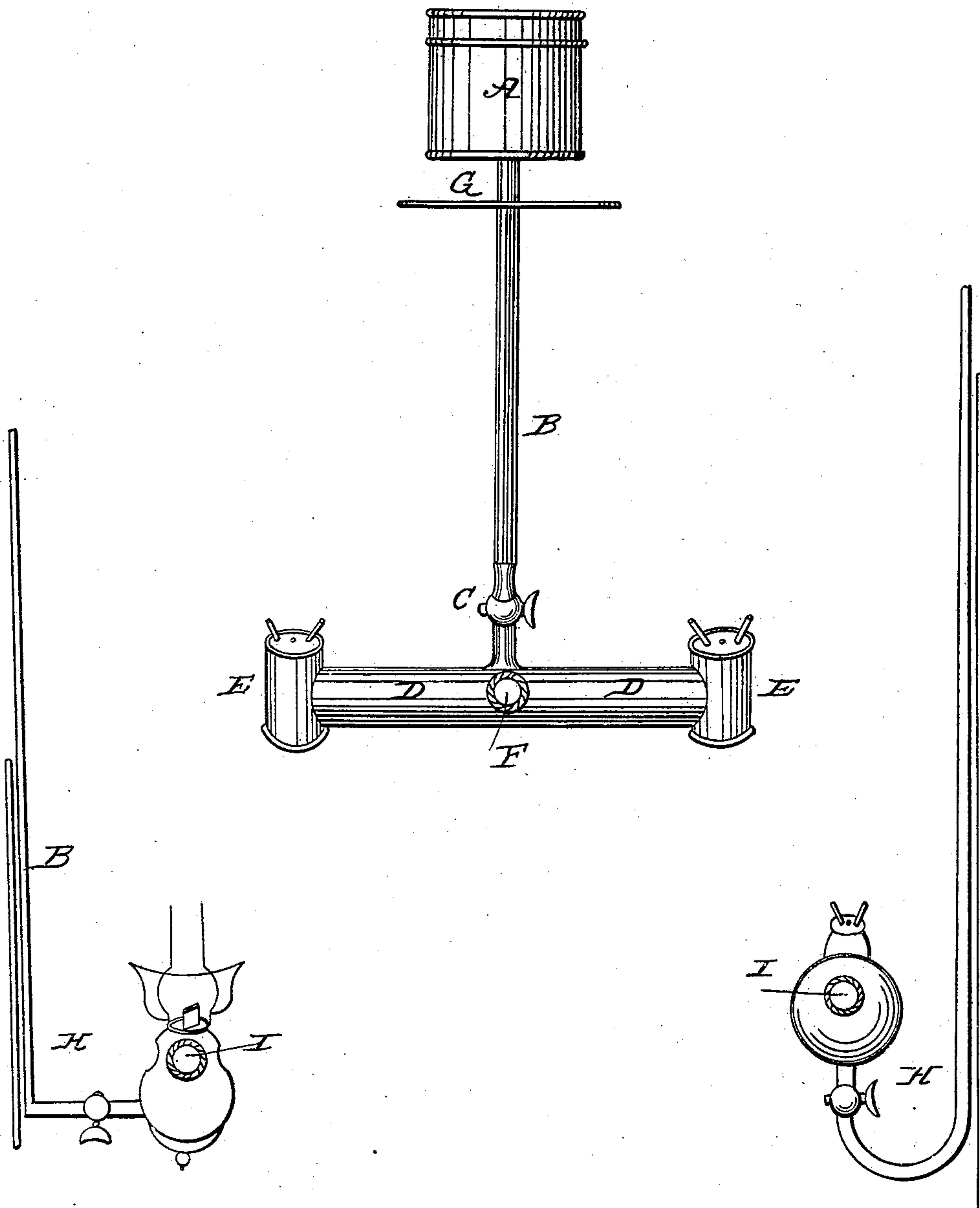


J. T. WILLIAMS.

Lamp.

No. 29,838.

Patented Aug. 28, 1860.



Witnesses  
*George M. Shelden*  
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# UNITED STATES PATENT OFFICE.

JNO. THOS. WILLIAMS, OF YORK BOROUGH, PENNSYLVANIA.

## LAMP.

Specification of Letters Patent No. 29,838, dated August 28, 1860.

*To all whom it may concern:*

Be it known that I, JOHN THOMAS WILLIAMS, of York borough, in the county of York and State of Pennsylvania, have invented a new and useful Improvement in Lamp-Fixtures; and I do hereby declare that the following is a full and exact description thereof, reference being had to the drawings accompanying this, with the letters of reference marked thereon.

A, Figure 1, is a reservoir made of tin or other material, of sufficient capacity to contain a supply of oil for several months without replenishing; it is placed in the upper part of the building, or in any convenient place suitable.

B is a feed pipe attached to the bottom of the reservoir and leading to the lamps E, E, H, H, or to any number of lamps that may be attached.

C, is a stop cock, gate, or other contrivance to regulate the flow of the oil.

D, D, are arms of the lamps E, E. The lamps are mounted with the ordinary burners and wicks adapted to the particular kind of material intended to be burned.

F is an opening (in which a short tube is placed) made in the lamp or feed pipe, in any convenient position; when on the side or front I close it with glass, mica, or any transparent material. This opening is not to be confounded with the small opening made in old style lamps for the supply of oil. The supply opening in this case is at the connection of the feed pipe and lamp below the stop cock.

G is the floor of a building.

H, H, are two lamps, fed on same principle, with stop cocks and feed pipes, leading to the same reservoir as above, they have the openings and short tube placed at I, I, and closed with glass or mica.

The whole fixtures made air tight to prevent leakage.

Operation: The object of my improvement is to facilitate the filling of lamps and yet prevent their overflow at the burner. It

is more especially adapted to suspended lights, and any number can be supplied from the same reservoir. The stop cock or gate C, being closed I fill the reservoir A with oil, which descends the pipe to C. When I wish to fill the lamps I open the stop cock and the oil descends into the lamp; the height of the rising oil being indicated through the opening at F, I replace the stop cock when the lamp is full, thereby preventing overflow at the burner.

I am aware that fountains and reservoirs have been used, both in the Argand and other lamps; the object being to keep the oil on a level with the burning end of the wick. My oil is raised by capillary attraction. Their reservoirs were necessarily near the burners, and were subject to overflow from the expansion of the air in the cistern by heat; and as far as I can learn there has been no means in any combined arrangement heretofore used for observing the height of the oil without opening the lamp at the burner or supply opening.

My plan is cleanly, practicable, and expeditious; and lamps with ordinary burners can be replenished while burning without risk of overflow.

I do not claim the reservoir, feed pipe, stop cock, or lamp; but

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

The employment in combination with a lamp that is supplied from an elevated reservoir, of a transparent section F, when said section is arranged between the lamp and the oil supply, on a line horizontal to the proper oil level of the lamp, so as to facilitate the replenishing of the lamp without extinguishing the flame and without overflow, all as herein shown and described.

JOHN THOMAS WILLIAMS.

Witnesses:

GEORGE M. SHETTER,  
HORACE BONHANE.