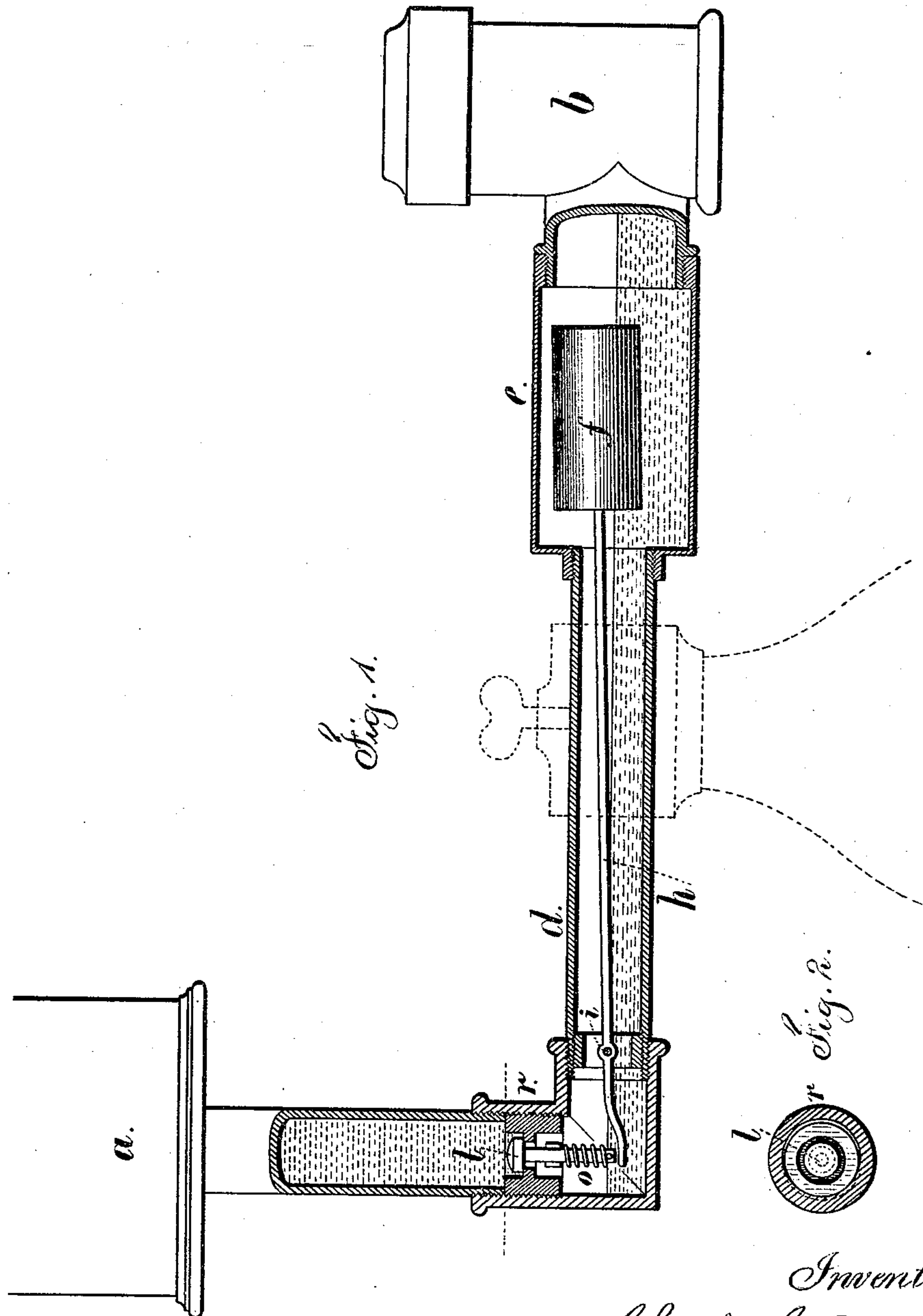


C. C. BLISS.
LAMP.

No. 178,588.

Patented June 13, 1876.



Witnesses
Chas. H. Smith
Harold S. Smith

Inventor
Charles C. Bliss.
per Lemuel W. Terrell
Att'y.

UNITED STATES PATENT OFFICE.

CHARLES C. BLISS, OF NORWICH, CONNECTICUT.

IMPROVEMENT IN LAMPS.

Specification forming part of Letters Patent No. **178,588**, dated June 13, 1876; application filed December 9, 1875.

To all whom it may concern:

Be it known that I, CHARLES C. BLISS, of Norwich, in the county of New London and State of Connecticut, have invented an Improvement in Lamps, of which the following is a specification:

The object of this invention is to regulate the flow of oil to a lamp-burner, so as to maintain uniformity in the height of the oil, and to allow the reservoir to be put at any convenient height above the burner, and to allow the same reservoir to be used for different burners. I accomplish this object by employing a fountain above the burner, and a valve in the pipe leading to the burner, which valve is closed by a float when the oil rises to the maximum level, and opened more or less when it descends below that level by the consumption thereof by the flame. By this means the difficulties in ordinary atmospheric lamp-fountains are avoided, and the supply rendered uniform and very gradual, instead of being irregular and causing the flame to flicker.

In the drawing, Figure 1 is a vertical section of the supply-regulator between the lamp-fountain and the burner, and Fig. 2 is a sectional plan above the valve.

The reservoir *a* is at a suitable height above the socket *b*, to which socket a lamp-burner of any desired character is screwed or otherwise attached, the wick of the lamp hanging into the oil in said socket. The socket *b* and reservoir *a* are connected by a suitable tube, *d*, the portion *e* of which is enlarged sufficiently for receiving the float *f* upon the lever *h*, the fulcrum *i* of which is located sufficiently near the valve *l* to give the necessary leverage in

opening said valve against the pressure of the spring *o*. This valve *i* is preferably a small disk upon a stem. The seat is flat and circular, and the spring acts to keep the valve tightly closed except when the oil is consumed, and the level thereof descends sufficiently to cause the float to open the valve *l* and admit a fresh supply of oil.

The float may be annular and within the burner-socket, with the wick hanging inside such float, and the lever and valve may be connected, so that the valve will be closed by the rise of the float instead of a spring. The supply of oil becomes automatic, and the valve will be opened only the amount that is necessary to maintain uniformity in the level of the oil as it is consumed.

The tube *d* may have a screw-coupling at *r*, to allow the parts to be disconnected for giving access to the valve for cleaning the same.

I claim as my invention—

1. The combination, with the burner and elevated reservoir, of a float, lever, and valve, all within the tube or oil-conduits between the reservoir and burner, substantially as set forth.

2. The valve *l*, stem *o*, lever *h*, and float *f*, in combination with the valve-seat, tube *d*, and burner-socket *b*, substantially as specified.

Signed by me this 6th day of December, A. D. 1875.

CHARLES C. BLISS.

Witnesses:

VENDELIN GLASSER,
DAVID YOUNG.