

L. G. HUNTINGTON.
Lantern.

No. 196,580

Patented Oct. 30, 1877.

Fig. 1.

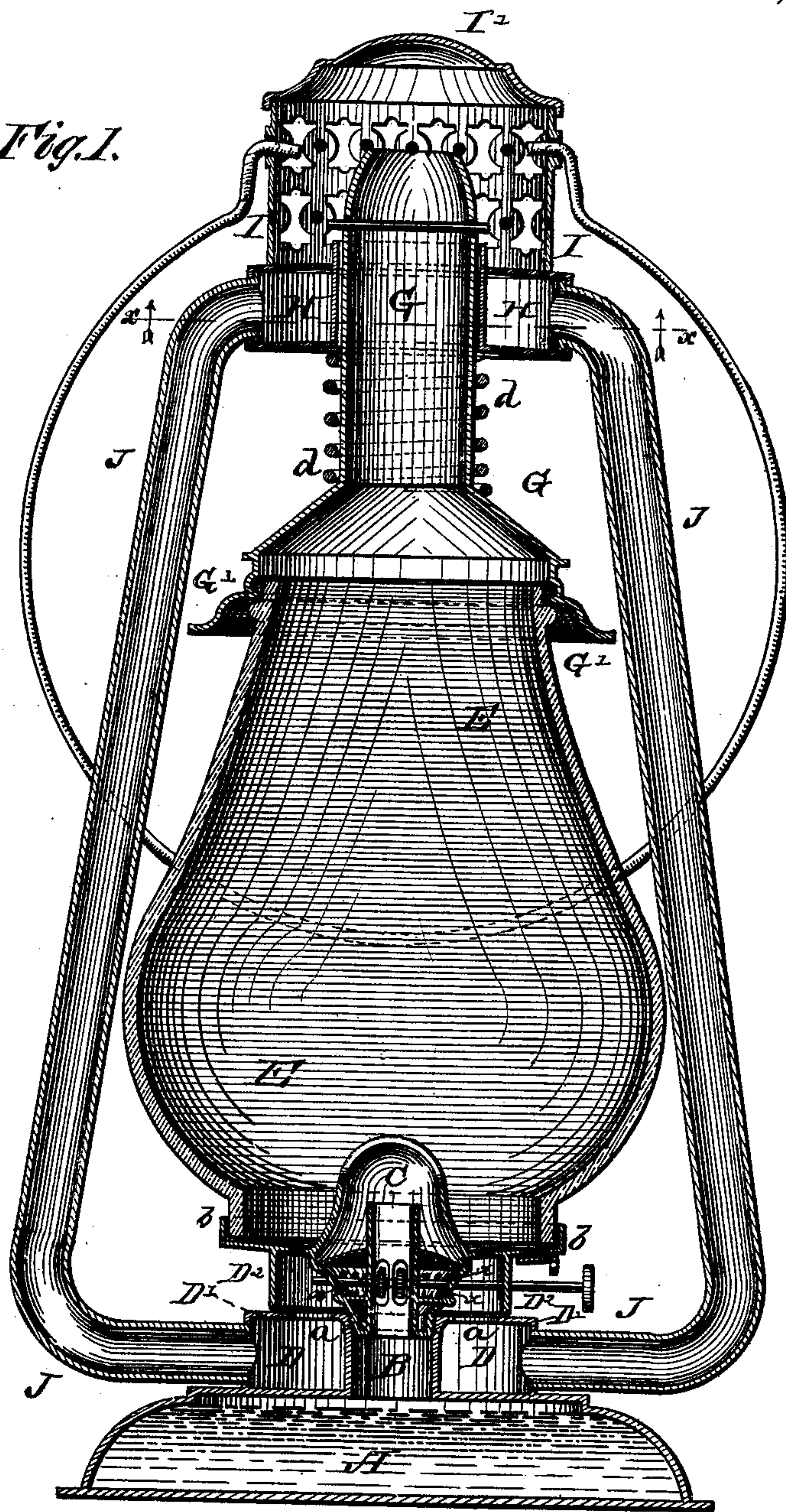
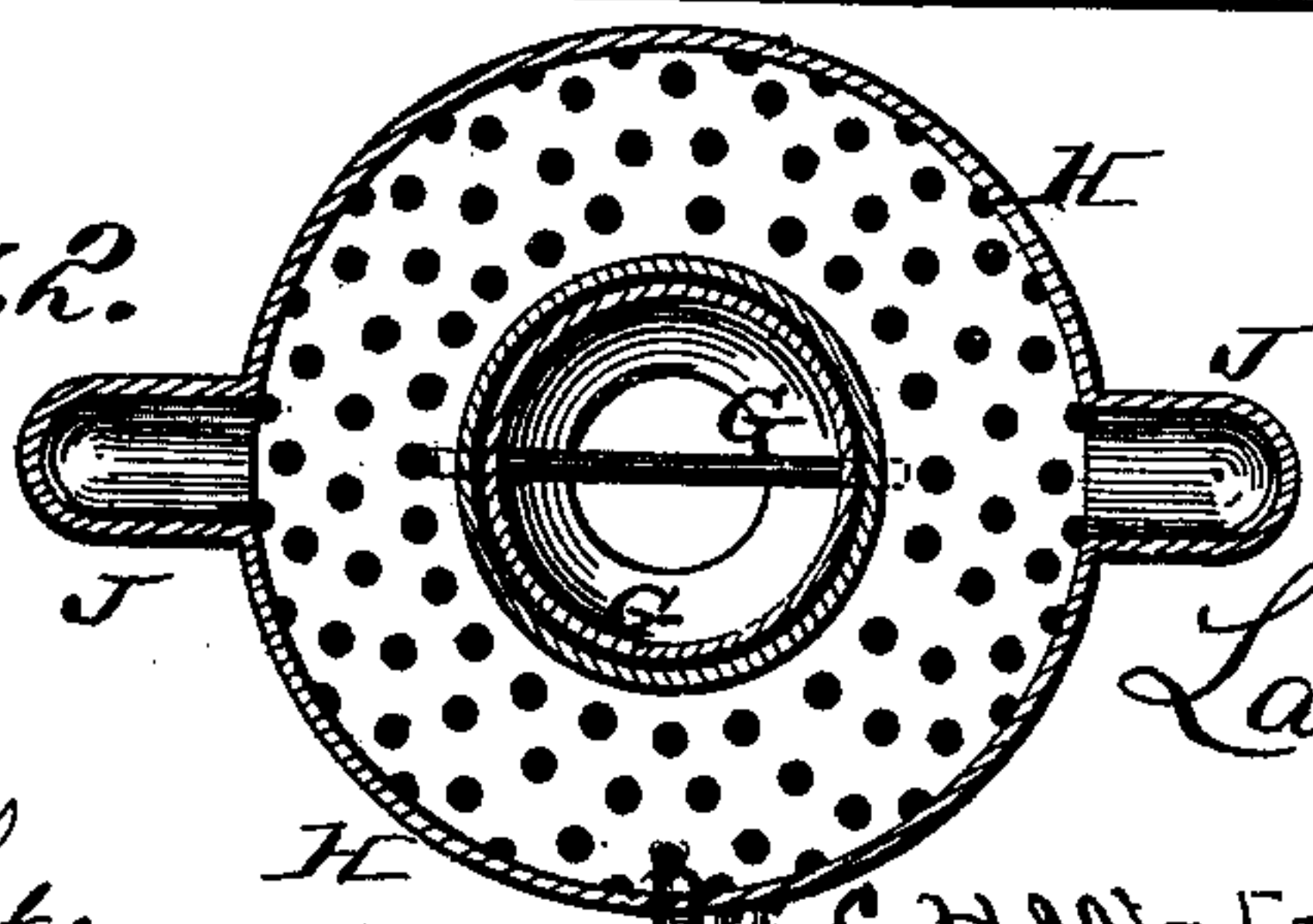


Fig. 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

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IMPROVEMENT IN LANTERNS.

Specification forming part of Letters Patent No. **196,580**, dated October 30, 1877; application filed September 27, 1877.

To all whom it may concern:

Be it known that I, LAWSON G. HUNTINGTON, of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Lanterns; and I do hereby declare that the following is a full, clear, and exact description thereof, which 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.

The nature of my invention consists in the construction and arrangement of a lantern, as will be hereinafter more fully set forth.

In the annexed drawing, to which reference is made, and which fully illustrates my invention, Figure 1 is a central vertical section. Fig. 2 is a transverse section on line *x x*, Fig. 1.

A represents the base or oil-reservoir of a lantern, provided on top with an upwardly-projecting tube or collar, B, into which the burner C is screwed, in the usual manner. On the top of the base or reservoir A is also secured a circular rim, D, concentric with the collar B, and around the top of said rim is an inwardly-projecting flange, D¹, as shown.

The burner C is provided with a downwardly-projecting flange, D², which, when the burner is screwed into place, rests upon the flange D¹, forming an air-tight chamber, *a*, into which air is admitted, by means hereinafter described, and from which the air is supplied to the flame through perforations *x x* in the burner. The burner C is also provided with an air-tight upwardly-projecting flange, *b*, to support the globe E, said globe connecting the burner with an air-tight chimney, G, fitting over the top of said globe, and held thereon by a spring, *d*. H represents a perforated air-chamber, through which the chimney G passes loosely, and on top of said air-chamber is a perforated hoop, I, covered with the ordinary top I', or cap, to a lantern-top, said perforated hoop resting on the air-chamber, and the upper end of the chimney opens within said perforated hoop.

The air-chambers H and *a* are connected by means of tubes J J, so that the outside air will

be drawn by the burner from the top chamber H, through said tubes J J, into the chamber *a*, and thence upward within the globe, no outside air being admitted at the bottom of the globe. The burner having the air-tight flange *b* for supporting the globe, and the globe connecting the same with the air-tight chimney, increases the draft. The chimney also serves to hold the globe in position by the spring *d*, which surrounds the lower portion of the chimney, one end of the spring bearing against the under side of the air-chamber H, and the other end against the extreme lower flaring portion of the chimney. This end of the chimney is provided with a flange, G', for protecting the chimney from breakage by rain.

The chimney may be secured by any suitable means to prevent its being displaced when the lantern is moved or handled.

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

1. In a lantern, the combination of a perforated air-chamber above the chimney, an air-chamber surrounding the burner, and air-tubes connecting the same, whereby all the air fed to the burner is drawn from the outside into the upper chamber, and throughout the air-tubes to the chamber surrounding the burner, substantially as set forth.

2. In a lantern, the combination of the upwardly-projecting flange *b*, globe E, and chimney G, the connections between the flange and the lower portion of the globe and between the chimney and upper portion of the globe being air-tight, substantially as described.

3. The combination of the base A and burner C, constructed to form the air-chamber *a*, the globe E, tubes J J, air-chamber H, chimney G, and perforated hoop I, all constructed substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

LAWSON G. HUNTINGTON.

Witnesses:

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