

T. H. BRAISTED.
Reflecting Lantern or Lamp-Caps.

No. 148,921.

Patented March 24, 1874.

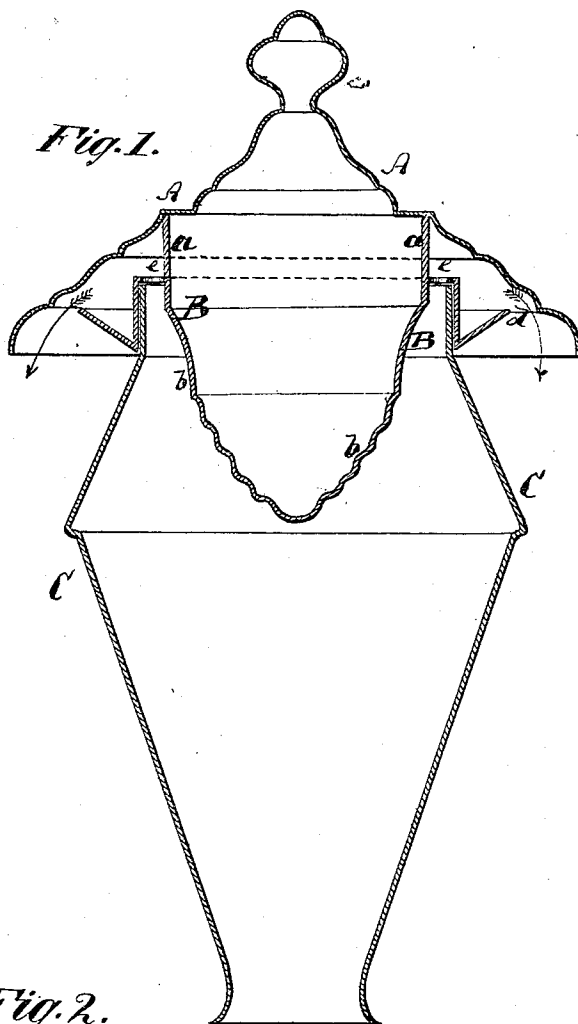
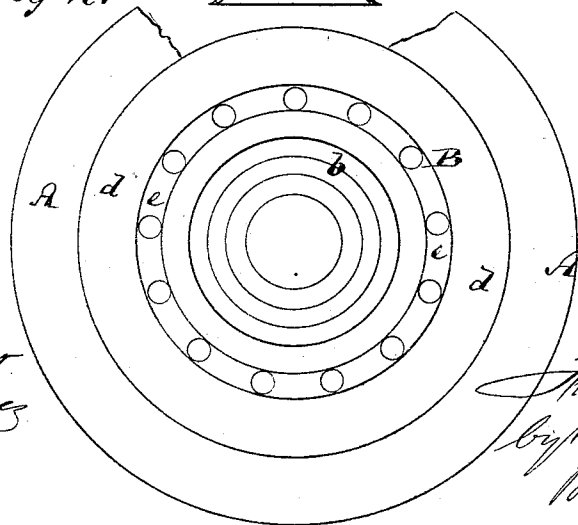


Fig. 2.



Witnesses
John Becker
Fred Haynes

T. H. Braisted
by his Attorneys
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UNITED STATES PATENT OFFICE.

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IMPROVEMENT IN REFLECTING LANTERN OR LAMP CAPS.

Specification forming part of Letters Patent No. 148,921, dated March 24, 1874; application filed
May 23, 1873.

To all whom it may concern:

Be it known that I, THOMAS H. BRAISTED, of the city, county, and State of New York, have invented an Improved Reflecting Lamp or Lantern Cap, of which the following is a specification:

Figure 1 is a central vertical section of my improved reflecting-cap, and Fig. 2 a bottom view of the same.

Similar letters of reference indicate corresponding parts in all the figures.

This invention has for its object to produce a cap for lamps or lanterns, especially for street-lamps, whereby ample reflection of the light will be obtained and a downward current of the products of combustion from the lamp effected, the outer or upper cap portion being entirely solid, so as not to admit rain-water or dust, &c., into the lamp from above. My invention consists in making the cap with a downwardly-projecting reflecting-cone, which is combined, by a perforated annular plate, with an outer reflecting-flange, all as herein-after more fully described.

In the accompanying drawing, the letter A represents the upper part or covering portion of the cap. From and within the same is suspended, by means of lugs or by an inner flange, *a*, a metal plate, B, whose lower surface is polished throughout to constitute a reflector. The central part of this metal plate B is depressed to form a cone, *b*, which enters the middle of the lantern-globe C, and is, therefore, just above the light to properly reflect the same outward. I prefer to make such cone *b* with corrugated

surface, as shown. The outermost part of the plate *b* is turned up slightly, as shown in Fig. 1, to form an outer annular reflector, *d*, which embraces the upper part of the globe C. Between the cone *b* and the outer reflector *d* the plate B forms an annular perforated portion, *e*, which serves as a conductor of gases from the globe C to the space between the outer part of B and A, so that such gases will escape in the direction of the arrow shown in Fig. 1. By this arrangement of the perforated part *e* above the globe C, and by leaving an annular open space between the outer edge of the reflector *d* and the cap A, ample room for draft is obtained, and the cap still made to entirely protect the lamp, and to exclude from the interior of the lantern water, dust, &c.

The reflector as made will be very effective, and will serve to diffuse the light in all directions better than can be done by the more costly reflectors and appliances now in use for the same purpose.

The reflector may be made of glass instead of metal, and suitably attached to the cap A.

I claim as my invention and desire to secure by Letters Patent—

The lantern or lamp cap composed of an upper plate, A, and lower plate B, the latter constituting the cone *b*, perforated plate *e*, and outer reflector *d*, substantially as herein shown and described.

THOS. H. BRAISTED.

Witnesses:

FRED. HAYNES,
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