

F. ADT.
Lamp and Reflector.

No. 79,887.

Patented July 14, 1868.

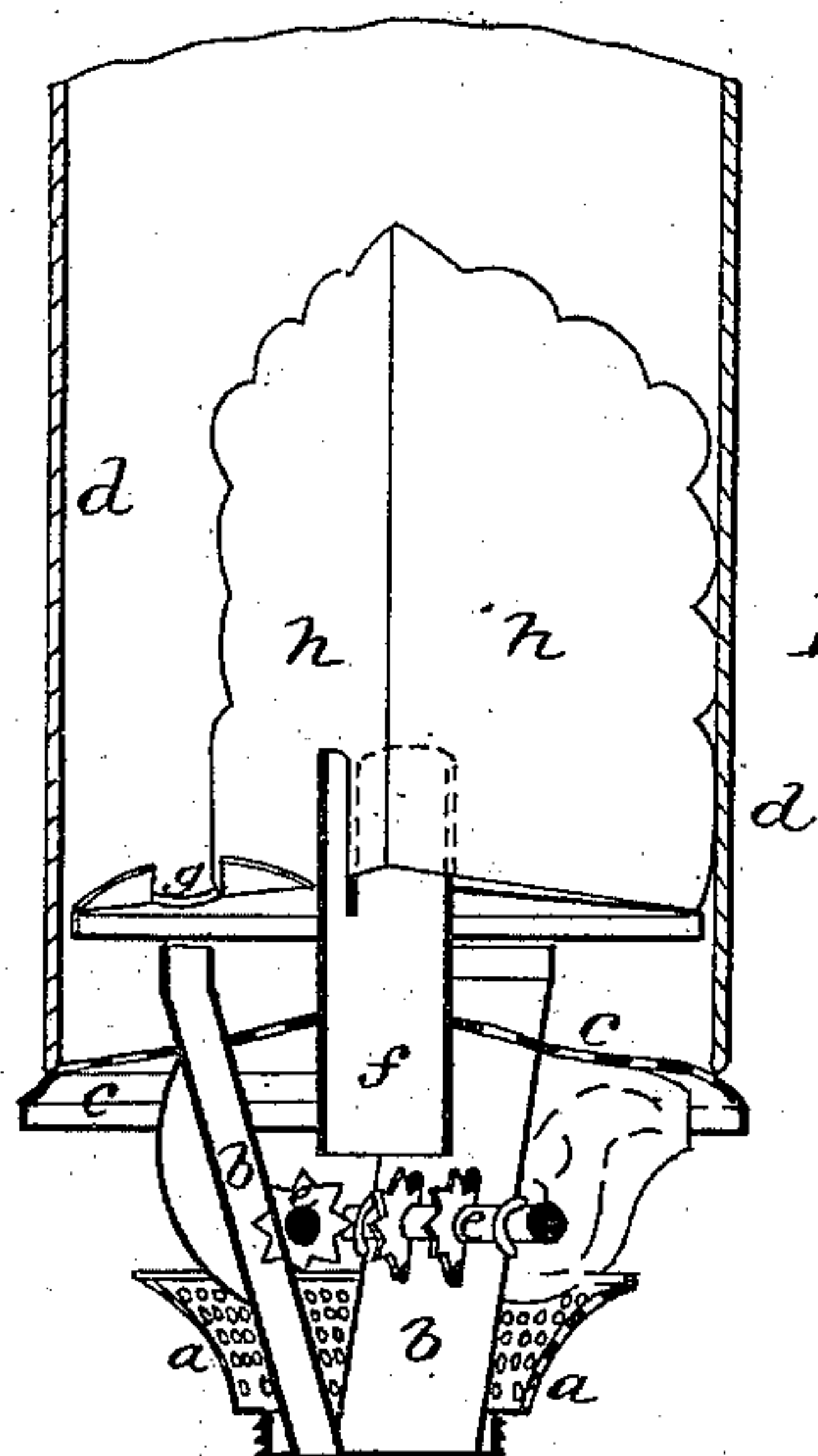


Fig. 2.

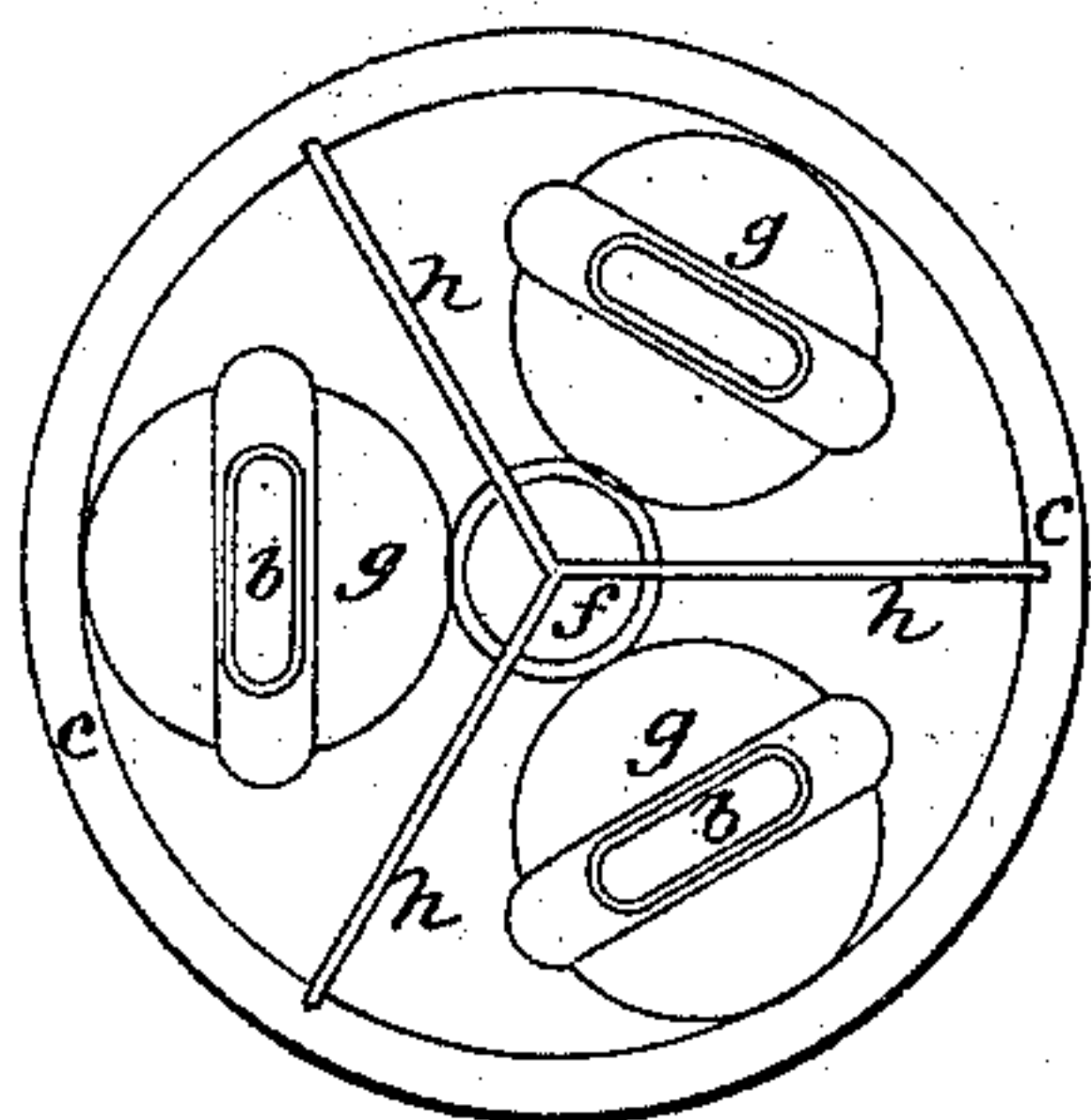


Fig. 1.

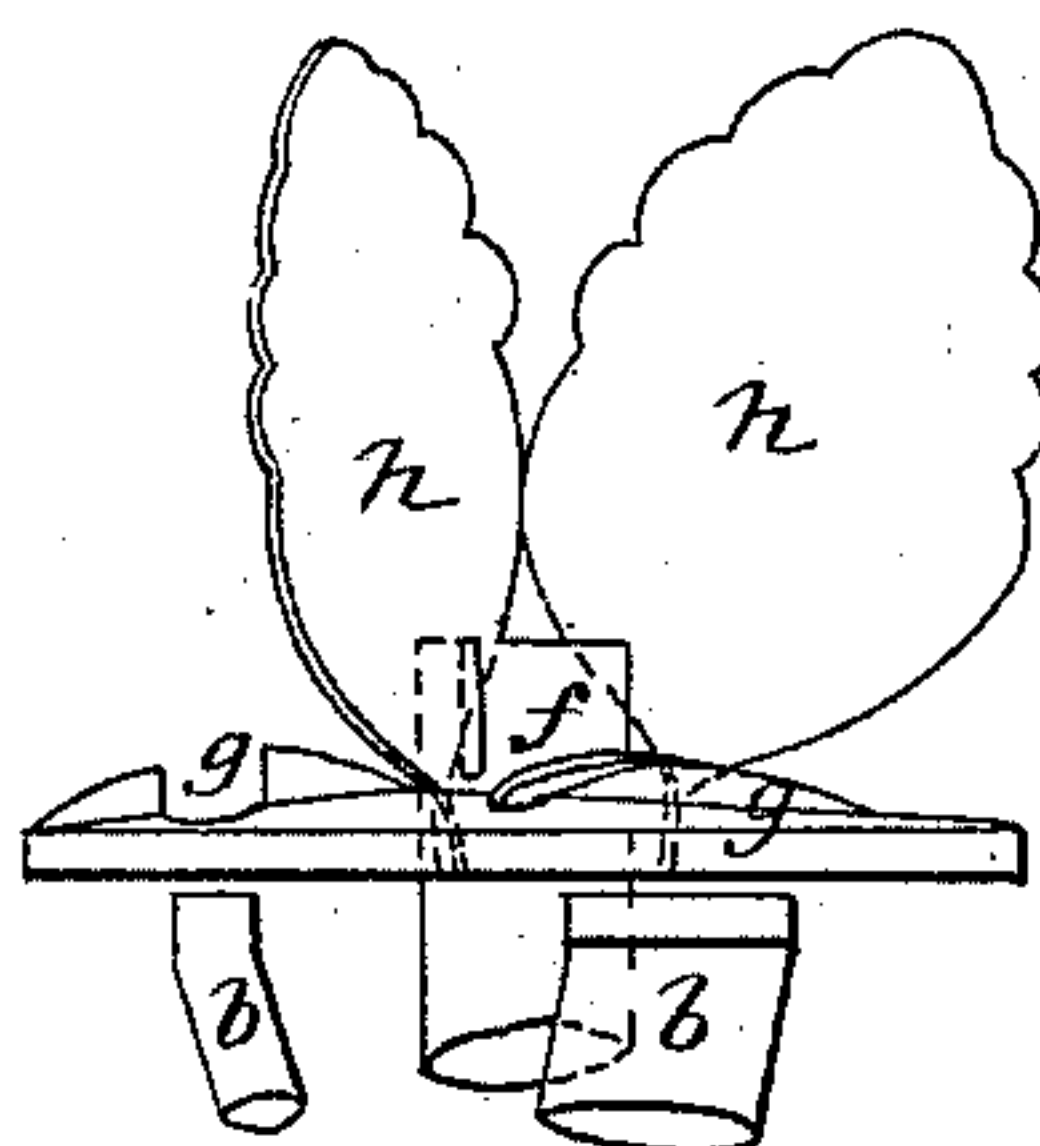


Fig. 3.

WITNESSES

Chas. H. Smith
Geo. S. Wadsworth

INVENTOR

Ferdinand Adt
per L. W. Penell
Atty

United States Patent Office.

FERDINAND ADT, OF WOLCOTTVILLE, CONNECTICUT, ASSIGNOR TO HIMSELF AND ELISHA TURNER, OF SAME PLACE.

Letters Patent No. 79,881, dated July 14, 1868.

IMPROVEMENT IN LAMPS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, FERDINAND ADT, of Wolcottville, in the county of Litchfield, and State of Connecticut, have invented and made a certain new and useful Improvement in Lamps; and I do hereby declare the following to be a full, clear, and exact description of the said invention, reference being had to the annexed drawing, making part of this specification, wherein—

Figure 1 is a plan of the said lamp,

Figure 2 is a vertical section of the same, and

Figure 3 is a side view of a variation in the shape of the reflectors that are introduced within the chimney. Similar marks of reference denote the same parts.

The nature of this invention consists in a reflector, with two polished surfaces, introduced in the chimney of a lamp and between two wicks and their flames, so that the light will be increased by the reflection; and I introduce a supply of air in such a manner as to prevent the reflectors becoming heated too much or injured by the smoky vapors of the flames.

In the drawing I have shown my invention as applied to a lamp with three wicks, as the most convenient form in which the invention can be employed, but two or more wicks might be used.

a is the screw and foraminous body of the burner, from which the wick-tubes *b b b* rise, diverge, and pass through the perforated air-screen *c*, that receives upon its edge the chimney *d*, that is made cylindrical and slightly contracted at the top, as usual.

e e are the wick-raisers, of ordinary construction.

f is an air-tube, passing centrally through the air-screen *c*, and supporting the deflectors *g*, that are formed of slotted dome-shaped projections above each of the wick-tubes.

The action of the air upon the flames is the same as in ordinary lamps, the deflectors *g* directing the air to the base of the flame, but the tube *f* supplies air above the deflectors *g*, to perfect combustion in the upper part of the flames and to prevent the reflectors *h* becoming smoky or too hot.

These reflectors stand as radial vertical plates, and being polished on both sides, increase the light, because each actual flame has two reflections, thus, in a three-light burner, adding the light of six reflections of the flames.

In fig. 3 the reflectors are shown as leaf-shaped, instead of being united in the middle, as in figs. 1 and 2.

What I claim, and desire to secure by Letters Patent, is—

A reflector placed between two or more deflectors, and within the chimney, so as to reflect the light from the flames in the manner specified; and in combination with such deflectors and reflectors I claim the air-tube *f*, for the purposes set forth.

In witness whereof, I have hereunto set my signature, this 5th day of May, 1868.

F. ADT.

Witnesses:

CHS. F. CHURCH,

F. L. HUNGERFORD.