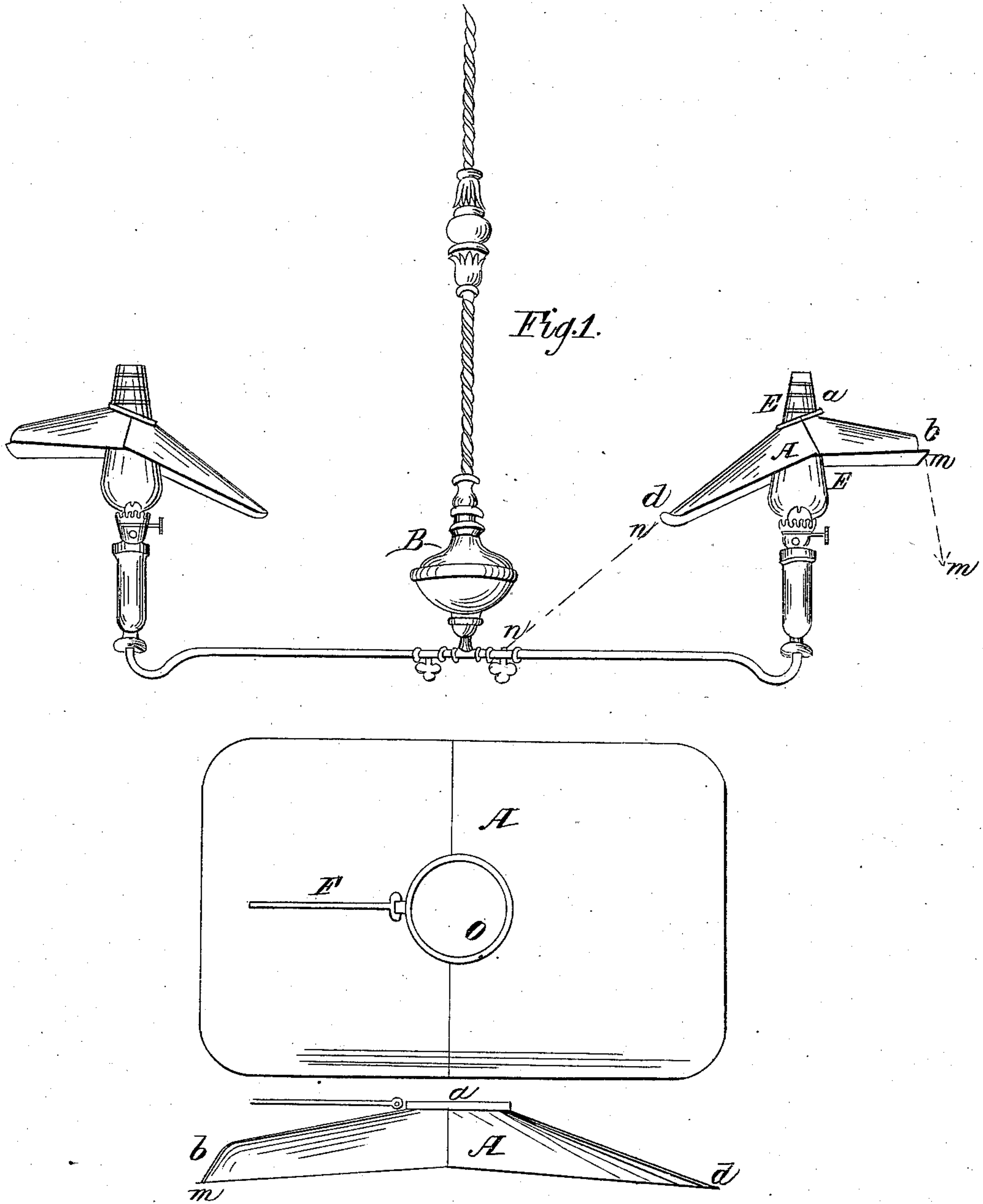


L. PORTNER.  
Chandelier Reflector.

No. 80,499.

Patented July 28, 1868.



Witnesses in  
Jas B. Lumsden  
N K Trocher

Louis. Postner  
Inventor

# United States Patent Office.

LOUIS PORTNER, OF CHICAGO, ILLINOIS.

*Letters Patent No. 80,499, dated July 28, 1868.*

## IMPROVEMENT IN REFLECTORS.

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, LOUIS PORTNER, of the city of Chicago, in the county of Cook, and State of Illinois, have invented new and useful Improvements in "Light-Reflectors for Chandeliers;" and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawing, making part of this specification, in which—

Figure 1 represents a chandelier, with my reflectors put on,

Figure 2 a top plan view of a reflector, and

Figure 3 a side view of the same.

The nature of my invention consists in so shaping the reflecting surface of the reflectors used on chandeliers as to illuminate the table or other objects thoroughly, without leaving any shadow in the centre.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

The principal object of my reflector is to use it on the kerosene-lamps of chandeliers for illuminating billiard-tables, although the same can be used for illuminating dining-tables or for other purposes, as also for gas-chandeliers.

The reflector A is made of sheet metal, principally tin, or of any other material suitable for the purpose. It is raised in the middle, *a*, and is slanting lengthways towards its outer edges, the edge *b* of which, the farthest from the centre of the chandelier, is bent down sharply, so as to reflect the light in the direction *m m* almost vertically, while its nearest edge *d* to the centre of the chandelier remains straight, the longest edges of the reflector graduating accordingly, and as the reflecting-surface, terminated by the edge *d*, slants gradually to the said edge, the light reflected by this side will be thrown partly in the direction *n n*, a little below the central cup B of the chandelier, the result being that the light of two or more lamps reflected on one side right down, and on the other side towards the centre of the chandelier, will illuminate the table perfectly, without leaving any shadow in the centre.

The reflector is provided with an opening, O, to slip it over a tin top, D, of the lamp-glass E, and a wire, F, hooked at the end, hinged to the top of the reflector, and at the edge of the opening O, serves the purpose to support the reflector over the lamp by hooking said wire over the tin top of the glass.

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

The reflector A, constructed substantially as and in the manner herein set forth and for the purpose specified.

LOUIS PORTNER.

Witnesses:

J. B. TURCHIN,  
N. K. KROEBER.