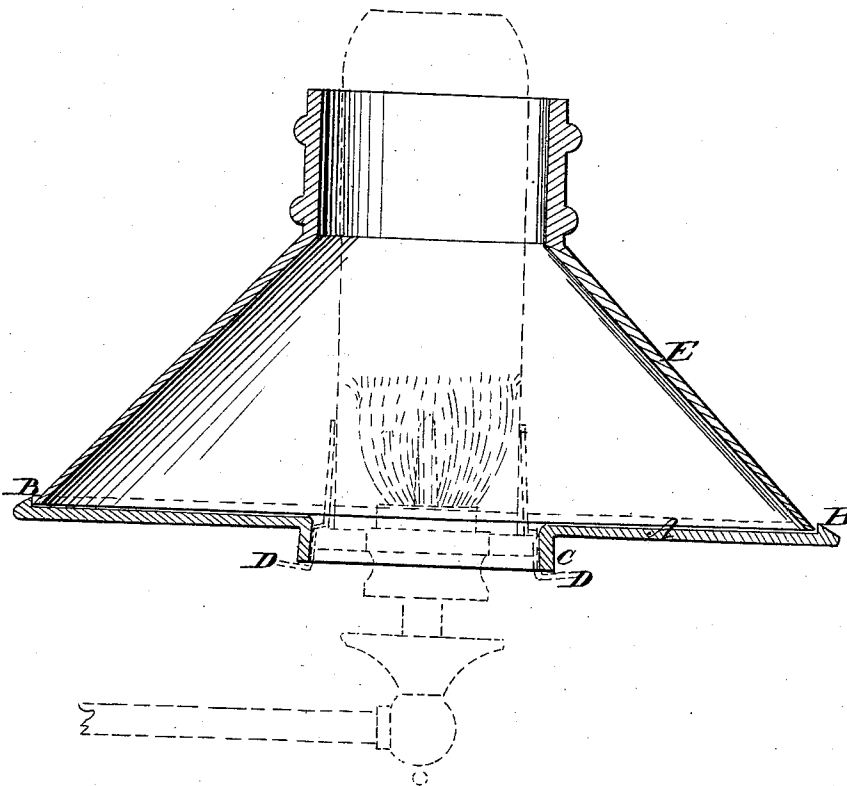


W. FULLAGER.

Lamp-Shade.

No. 103,865.

Patented June 7, 1870.



Witnesses:

S. J. Mabey
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Inventor:

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UNITED STATES PATENT OFFICE.

WILLIAM FULLAGAR, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN SHADES FOR GAS-LIGHTS.

Specification forming part of Letters Patent No. **103,865**, dated June 7, 1870.

To all whom it may concern:

Be it known that I, WILLIAM FULLAGAR, of Brooklyn, in the county of Kings and State of New York, have invented a new and useful Improvement in Shades for Gas-Lights; 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 make and use the same, reference being had to the accompanying drawing, forming part of this specification.

My invention relates to bottom shades for gas-lights; and consists in an improved article formed of solid porcelain, with an upwardly-projecting annular flange around its extreme edge to hold the ordinary side shade in place. The said improved shade may also be used with lamps, with slight changes in adaptation to the brass rings or supports, and is applicable, without change of the form represented, to what are known as the "student lamps."

The drawing represents a sectional elevation of a shade constructed and arranged according to my improvements.

A represents my improved porcelain-bottom shade, consisting of a broad disk of porcelain, with a raised rim, B, at the outer edge, and a large hole in the center, around which is a downward-projecting flange, C, for resting on the brackets D, attached to the burner, for holding the shade.

E represents the ordinary side shade, and D the bracket, which rests on the lamp, to support the glass inner shade in its proper position.

A represents my porcelain-bottom shade, having circular aperture in the center, surrounded by a downward-projecting flange, C, which rests on a shoulder of bracket D. This shade A permits the light, which is thrown downward, to pass through sufficiently, and is very useful where the light stands high.

I am aware that ground-glass shades, with brass rims at B, have been used in this way; but the addition of the brass rims makes them too expensive, as the brass has to be milled over the edge of the disk to be secured thereto.

I do not therefore claim a horizontal shade for the light thrown downward, broadly; but

I do claim and desire to secure by Letters Patent—

An improved bottom shade, A, formed of porcelain in a single piece, upwardly flanged at B and downwardly flanged at C, each as and for the purpose specified.

The above specification of my invention signed by me this 13th day of April, 1870.

WILLIAM FULLAGAR.

Witnesses:

GEO. W. MABEE,
L. S. MABEE.