

Lamp Shade.

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witnesses
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UNITED STATES PATENT OFFICE.

MATHEW STEWART, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN LAMP-SHADES.

Specification forming part of Letters Patent No. 52,768, dated February 20, 1866.

To all whom it may concern:

Be it known that I, MATHEW STEWART, of the city of Philadelphia, in the State of Pennsylvania, have invented a new and useful Improvement in Shades for Lamps; and I do hereby declare that the following is a full, clear, and exact description of the construction of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 represents the inner side of one-half of the said improved shade divided vertically; Fig 2, a plan view of the upper end of the same when the reflector is removed, and Fig. 3 a horizontal section of the picture or transparency holding frame, cut on the dotted line *x y* of Fig. 1, like letters of reference indicating the same parts when in the different figures.

The nature of my invention consists, substantially as hereinafter described and set forth, in the production of a circular shade for a lamp, having vertical sides for exhibiting the usual ornamental pictures or transparencies, surmounted by a detached reflector in the form of a hollow frustum of a cone, the whole being supported upon the lamp by means of arms radiating from a central thimble, and bent so as to pass up vertically within the shade and be detachably secured to the sides thereof by means of shoulders and screw-nuts, whereby greater facility and scope is obtained for inserting, changing, or displacing the pictures or transparencies, and a more substantial and durable support given to the whole shade.

In the drawings, A is the reflector; B, the vertical sides, and C C C the supporting-arms radiating from the usual thimble D.

The vertical sides B consist of two sheet-metal rims, *b' b²*, each formed so as to have an annular groove, *b³ b⁴*, for the reception of the upper and lower edges, respectively, of a frame, *b⁵*, which supports the pictures or transparencies in a vertical position in the shade.

The frame *b⁵* (see Figs. 1 and 3) consists of a single strip of thin sheet metal or stiff paper, and is about two and three-quarters of an inch wide, (more or less,) and of a length corresponding with the length of either of the grooves *b³* or *b⁴*. It has three or more openings cut through it for displaying the pictures

or transparencies *e e*, and these latter are adjustably secured by means of vertical cross-strips attached to the parts of the frame which divide the openings, so as to allow the said pictures or transparencies *e* to be inserted or withdrawn with ready facility, and in this condition the frame *b⁵* is bent into a circle and inserted down into the groove *b⁴* of the rim *b²*, and then the rim *b'* applied over it, so as to receive the upper edge of the frame *b⁵* within its groove *b³*, as seen in Fig. 1.

The supporting-arms C C C radiate from the central thimble, D, in the usual manner, but instead of each arm ending in the short hook, which is loosely slipped into a short tube on the under side of the inclined shade, as heretofore, these arms C are each bent vertically upward at a point close to the lower rim, *b²*, and extend a little above the upper rim, *b'*, the vertical portion passing through the lugs *b⁶ b⁷*, which project at the inner edges of the said rims for the purpose as seen in Figs. 1 and 2. A small shoulder, *c'*, is formed near the upper end of each of the arms C, and a screw-thread is cut above it, on which a small thumb-and-finger nut, *c²*, works. The lower rim, *b²*, rests on the arms C at the bends, and the upper rim, *b'*, rests on the shoulders *c'*, while the nuts *c²* keep them securely together, with the frame *b⁵* between them, as before described.

The reflector A is in the common form of a hollow conical frustum, and may be made of thin sheet metal, porcelain, ground glass, or any other suitable material. It rests loosely upon the upper side of the rim *b'*, as seen in Fig. 1.

This is a very strong and substantial shade for a lamp, and its vertical sides B afford a more extensive and better position for displaying the pictures or transparencies than the tapering shades in common use, and at the same time present a ready means of changing the latter with facility at any time, as the reflector is detached, and the nuts *c²* and rim *b'* are easily removed for the purpose of changing either the frame *b⁵* or the pictures *e*; and, moreover, the mode of attaching the shade to the arms C, as described, keeps all the parts securely and firmly together whether the shade be on or off the lamp.

Having thus fully described my improved

lamp-shade, what I claim as new therein of my invention, and desire to secure by Letters Patent, is—

1. A circular shade having the vertical sides B, consisting of the two grooved rims, b' b^2 , and a picture-holding frame, b^5 , between them, the same being constructed and arranged substantially as and for the purposes described.

2. In combination with the said vertical sides B, bending the ends of the arms C into the vertical positions shown, together with their respective shoulders c' , and screw-nuts c^2 , as and for the purposes described.

3. Making the picture or transparency hold-

ing frame b^5 in one entire piece, and irrespective of the number or form of its openings for receiving or holding the said pictures or transparencies.

4. In combination with the said vertical sides B of the shade, the detached reflector A, the same being supported by simply resting on the upper rim, b' , as and for the purpose specified.

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Witnesses:

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