E. H. STRAUSS.

LAMP SHADE.

APPLICATION FILED DEC. 1, 1916.

1,310,378. Patented July 15, 1919.

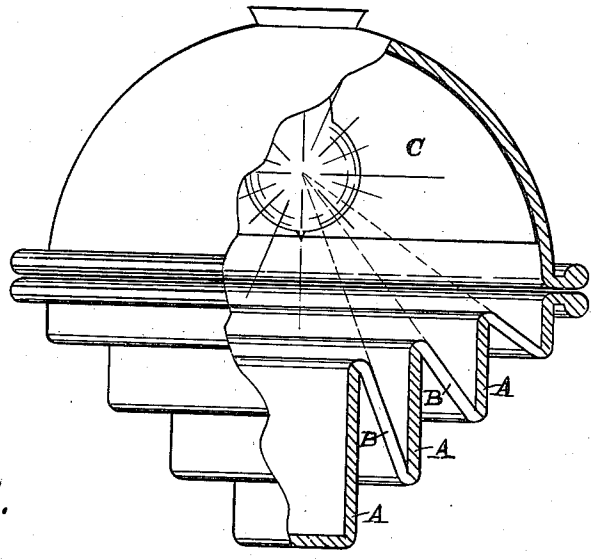


Fig. 1.

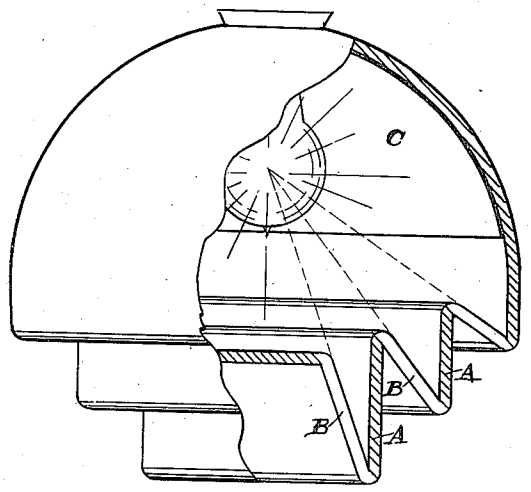


Fig. 2.

Witnesses:
G. McFlaherty
W. M. Humphrey.

Inventor,
Ernest Hugo Strauss,
per Fred'k A. Freeark
Attorney

UNITED STATES PATENT OFFICE.

ERNEST HUGO STRAUSS, OF CHICAGO, ILLINOIS.

LAMP-SHADE.

1,310,378. Specification of Letters Patent. Patented July 15, 1919.

Application filed December 1, 1916. Serial No. 134,224.

To all whom it may concern:

Be it known that I, ERNEST HUGO STRAUSS, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Lamp-Shades, of which the following is a specification.

My invention relates to lamps generally and has for its objects the production of a maximum amount of light in any desired direction and the prevention of all glare to the eyes upon looking at or in the direction of the lamp.

I attain these objects by a shade or globe illustrated in the accompanying drawings, in which Figure 1 is an elevation, with a part broken away, of a typical shade or globe in circular form, attachable to a ceiling or other suitable fixture; and Fig. 2 is a variant of such shade or globe, also with a part broken away, but made of one piece and having fewer corrugations. The same letters refer to the same or corresponding parts in each of the views.

The shade or globe is made of glass or other suitable material, or partly of glass and partly of other material, and comprises a reflector and a diffuser, the former being of suitable curvature to reflect the rays impinging thereon in the direction desired, and the latter being corrugated in the same direction, and both being frosted or mat throughout except as to those sides of the corrugations on which only reflected rays fall, these being transparent or clear, so as to permit of the relatively unhindered passage of such reflected rays.

Referring to the drawings, the letters A indicate the frosted or translucent sides of the corrugations, B, the clear or transparent sides, while C represents the reflector.

It will be observed that the slope or pitch of the transparent or clear sides B of the corrugations is such that it is impossible to look through them or any of them, directly at the source of the light, as is the more clearly indicated by the dotted lines, thus preventing all glare; while most of the reflected rays pass through these transparent or clear sides B comparatively unhindered, thus affording the maximum of light in the direction of the corrugations from the source thereof.

It is, of course, understood that other modifications may be resorted to, such as making the shade or globe of an oval, elliptical, square, rectangular or other shape, or employing curves instead of angles in forming the corrugations, or employing more or fewer corrugations; but without departing materially from the scope of this invention, and such modifications are expressly included.

Having thus described my invention, I claim:

1. A lamp-shade inclosing a source of light, and comprising a reflector for reflecting and projecting all rays of said light impinging thereon in the general direction desired, and a diffuser for breaking up and scattering all direct rays of said light projected in the same direction and impinging thereon, the said diffuser being corrugated and having the sides of the corrugations facing the source of said light frosted or mat and approximately perpendicular to the general plane of the diffuser, while the sides of the corrugations facing the reflector are transparent or clear and so pitched that only reflected rays will impinge thereon.

2. A one-piece lamp-shade inclosing a source of light, and comprising a reflector for reflecting and projecting all rays of said light impinging thereon in the general direction desired, and a diffuser for breaking up and scattering all direct rays of said light projected in the same direction and impinging thereon, the said diffuser being corrugated and having the sides of the corrugations facing the source of said light frosted or mat and approximately perpendicular to the general plane of the diffuser, while the sides of the corrugations facing the reflector are transparent or clear and so pitched that only reflected rays will impinge thereon.

In witness whereof I have hereunto signed my name in the presence of two witnesses on the 29th day of November, A. D. 1916.

ERNEST HUGO STRAUSS.

Witnesses:
GERALD BARRY,
HUGH R. STEWART.