R. SWIMMER.

ELECTRIC LAMP.

APPLICATION FILED NOV. 24, 1919.

1,430,860.

Patented Oct. 3, 1922.

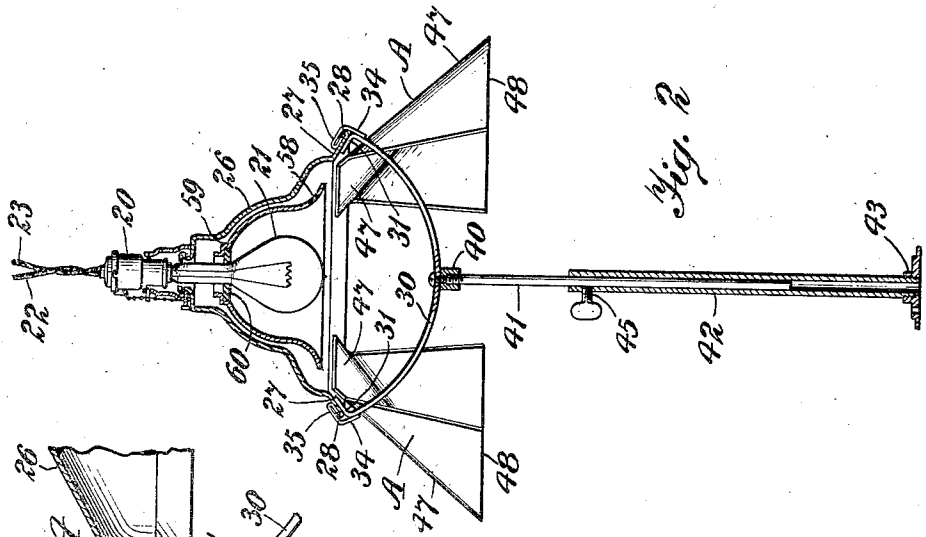


Fig. 2

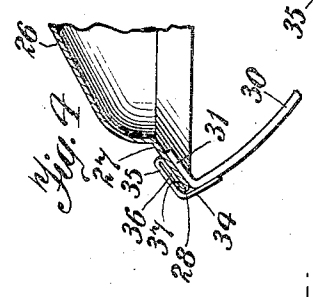


Fig. 4

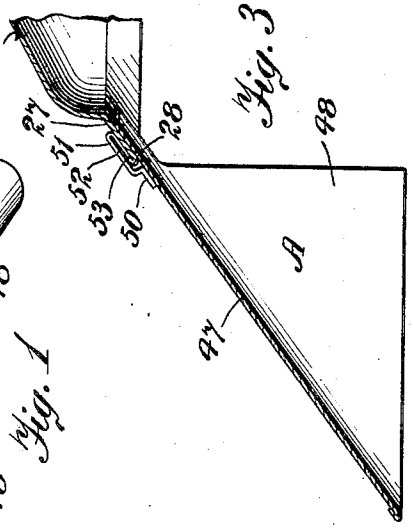


Fig. 3

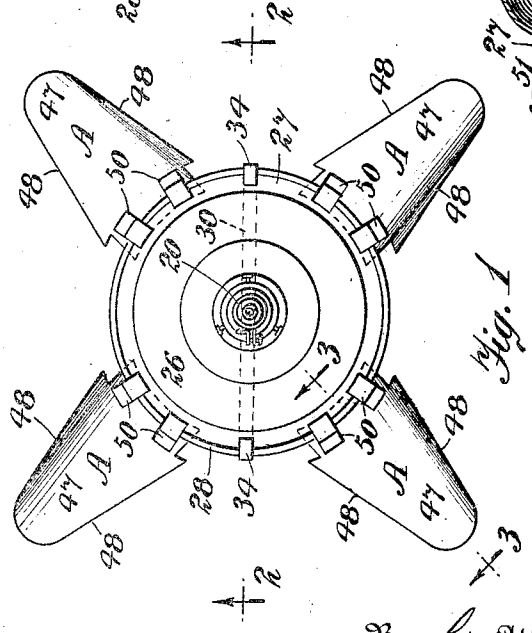


Fig. 1

Inventor

Robert Swimmer

By his Attorney

A. A. de Bonneville

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UNITED STATES PATENT OFFICE.

ROBERT SWIMMER, OF NEW YORK, N. Y.

ELECTRIC LAMP.

Application filed November 24, 1919. Serial No. 340,293.

To all whom it may concern:

Be it known that, I ROBERT SWIMMER, a citizen of the United States, and resident of the borough of Manhattan, city of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in an Electric Lamp, of which the following is a specification.

This invention relates to an electric lamp. Its object is the production of a lamp which has eye shields detachably connected to the shade thereof.

A concavo convex reflector is directly supported on the bulb of the lamp, to simplify the construction and avoid breaking the bulb. The reflector has provided in its neck a fibrous ring washer which is directly supported on the wall of the bulb, and thereby prevents said wall coming in direct contact with the reflector. The light is reflected by the reflector into the eye shields, which each have a tapering roof and flaring side walls, by means of which the light rays are transmitted in independent zones or prisms in different directions. This construction only transmits the light where needed.

The detachable eye shields can be connected to the shade of the lamp in different positions. A supporting bracket has detachably locked thereto the shade of the lamp. The construction of the lamp allows the rapid adjustment and detachment of its parts.

In the accompanying drawings Fig. 1 represents a top plan view of one form of the improved lamp; Fig. 2 shows a section of Fig. 1 on the line 2, 2; Fig. 3 is an enlarged section of Fig. 1 on the line 3, 3 and Fig. 4 shows an enlarged fragmentary portion of Fig. 2.

The electric lamp is indicated with the usual lamp socket 20 with its electric bulb 21. The usual wires for electric current are indicated at 22 and 23. The lamp shade 26 extends below the lamp socket 20 and has formed at the lower portion thereof the inclined or conical shaped flange 27. The latter has formed at its lower and outer edge the locking bead or locking ring 28. A curved locking and supporting bracket 30 has formed at its upper ends the supporting flanged seats 31.

Opposite each of the flanged seats 31 is secured a U-shaped spring clamp 34 having the legs 35 and 36. The lower edge of each of the legs 36 is indicated at 37. The flange 27 is supported upon the flanged seats 31. The lower faces of the legs 36 bear upon the flange 27 and the edges 37 lock with the locking bead or ring 28, whereby the shade 26 is detachably locked to the bracket 30.

A threaded sleeve 40 extends from the bracket 30 and in turn has extending therefrom the rod 41. A tubular lamp stand 42 is supported in the foot flange 43. A set screw 45 is in threaded engagement with an opening in the stand 42 and can pinch the rod 41. Thereby the rod 41 is adjustably secured to the stand 42 and the lamp shade with its appurtenances can be located in different levels. A plurality of detachable eye shields A, comprise each the upper inclined curved wall or roof 47, from which extend the flaring side walls 48. The shields A diverge from their outer to their inner ends to concentrate zones of light, as they pass through the shields. A pair of U-shaped spring clamps 50 having the legs 51 and 52 are detachably locked to the flange 27 of the shade 26. The lower edge of each of the legs 52 is indicated at 53. The lower face of each of the legs 52 bears upon the flange 27 and the edge 53 locks with the locking bead or ring 28, whereby the eye shields A are detachably locked to the flange 27. The eye shields A can be moved to different locations on the flange 27 without unlocking them therefrom, to direct the light rays from the bulb 21 in different directions. To detach any of the eye shields A from the flange 27 the leg 52 is forced against the leg 51 when the shield A can be easily lifted from the said flange 27. In a similar manner the bracket 30 can be unlocked from the shade 26, that is to say, the leg 36 is forced against the leg 35 when the shade 26 can be lifted from the flange 31.

A concavo convex reflector 58 has formed at its upper end the flanged throat 59, in which latter is secured the heat insulating ring washer 60, which in this instance is made of fibrous material preferably asbestos. The ring washer 60 is directly supported upon the upper portion of the glass wall of the electric bulb 21, and thereby prevents the bulb cracking or otherwise being injured.

In the operation of the lamp the light rays from the electric bulb 21 are directed

to and through the eye shields A, and the latter by virtue of their inclined curved roofs 47 and flaring side walls 48 deflect said rays laterally in separate zones or prisms of light so that with one lamp a plurality of objects may receive a voluminous amount of light.

Having described my invention what I desire to secure by Letters Patent and claim is:

1. In a lamp the combination of a source of light, a concavo convex reflector around the source of light, a shade around the reflector and a plurality of eye shields each having an inclined roof and flaring side walls extending from the shade, the said side walls diverging from their outer to their inner ends.

2. In a lamp the combination of an electric bulb, concavo convex reflector around the bulb, a shade around the reflector and a plurality of eye shields detachably locked to the shade, each shield having an inclined roof and flaring side walls, the said side walls diverging from their outer to their inner ends.

3. In a lamp the combination of an electric bulb, a lamp socket for the bulb, wires for electric current connected to the lamp socket, a shade extending from the lamp socket, a concavo convex reflector around the bulb and within the shade, said reflector having a flanged throat at its upper end coaxial with the longitudinal axis of the bulb, a heat insulating ring secured to said throat, the said ring supported on the portion of said bulb adjacent to the lamp socket.

Signed at the borough of Manhattan, city of New York, in the county of New York and State of New York, this 19th day of November, A. D. 1919.

ROBERT SWIMMER.