May 6, 1924. 1,492,724

R. FRONZEK

LAMP SHADE

Filed Aug. 24, 1922

Fig 1

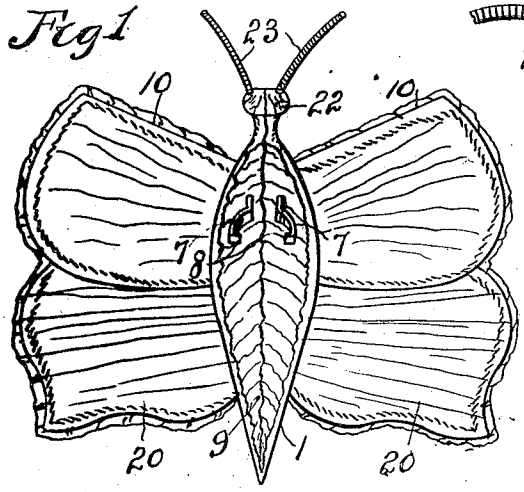


Fig 2

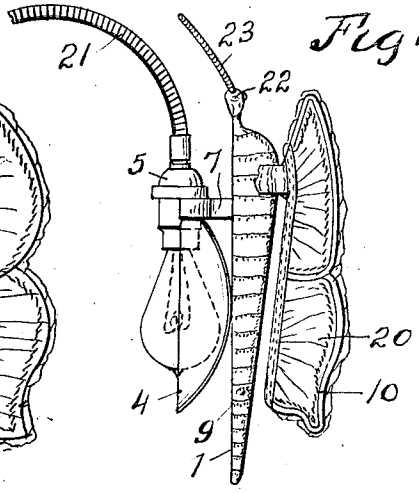


Fig 4

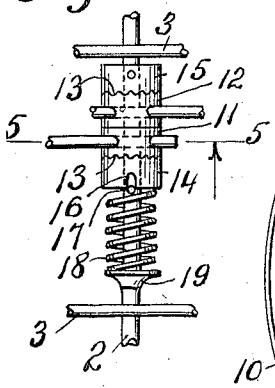
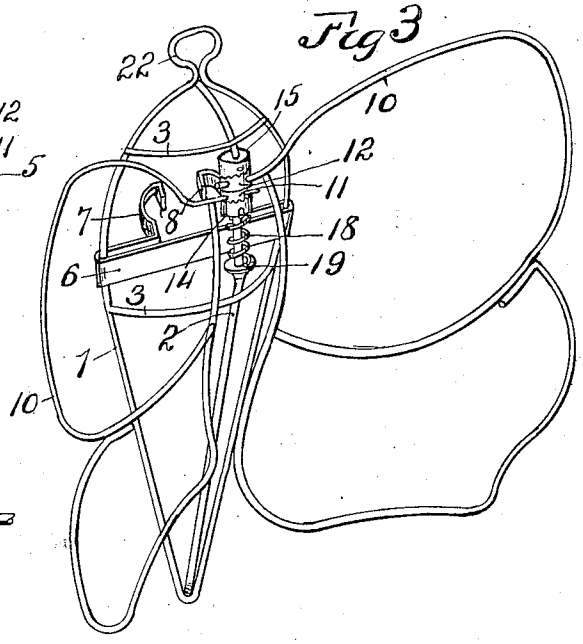


Fig 3



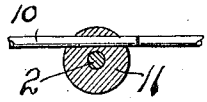
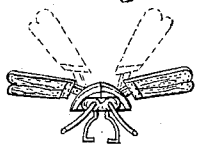


Fig 5

Fig 6



Witness:

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UNITED STATES PATENT OFFICE.

ROBERT FRONZEK, OF KANSAS CITY, MISSOURI.

LAMP SHADE.

Application filed August 24, 1922. Serial No. 584,048.

To all whom it may concern:

Be it known that I, ROBERT FRONZEK, a citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented a certain new and useful Improvement in Lamp Shades, of which the following is a specification.

My invention relates to improvements in lamp shades.

One of the objects of my invention is to provide a lamp shade which is ornamental and attractive in appearance, which simulates a winged insect, such as a butterfly, which is provided with wings which can be independently adjusted to different positions, which is light, strong, and durable and not liable to get out of order, and which can be readily attached to or removed from an electric lamp of the incandescent type, or the reflector of such a lamp.

The novel features of my invention are hereinafter fully described and claimed.

In the accompanying drawing, which illustrates the preferred embodiment of my invention,

Fig. 1 is an inside elevation of my improved lamp shade.

Fig. 2 is a side elevation of the same shown attached to the reflector of an incandescent electric lamp.

Fig. 3 is a perspective view of the lamp shade, with the body and wing coverings removed.

Fig. 4 is an enlarged fragmental elevation of the wing collars and parts connected therewith.

Fig. 5 is a cross section on the line 5—5 of Fig. 4.

Fig. 6 is a reduced front end view of the shade.

Similar reference characters designate similar parts in the different views.

The lamp shade, preferably is formed to simulate a winged insect, such as a butterfly, and is provided with a body comprising a wire frame consisting of a snow shoe shaped portion 1, and a longitudinal arched wire 2. Transverse brace wires arcuate in shape and designated by 3 are attached to the wire 2, the ends of the brace wires 3 being attached to opposite portions of the wire 1. The ends of the wire 2 are attached respectively to the central end portions of the wire 1.

For releasably attaching the body to an electric lamp reflector 4, Fig. 2, or to the socket portion of an incandescent lamp 5, a transverse plate 6 extends across the body and is attached to the wire 1, and is provided with two arms 7 which extend outwardly and are curved to conform to the outside of the reflector 4, each arm having an inwardly extending end portion 8 arranged to extend into the reflector 4.

The wire frame is covered with material, such as cloth 9, which may be opaque to intercept the light, or translucent, as may be desired.

Attached to the back of the body are two wings, each of which comprises a wire frame 10 respectively rigidly attached to two collars 11 and 12, which are rotatable on the wire 2, and each of which is provided at its outer end with corrugations 13. The corrugated ends of the collars 11 and 12, respectively engage corresponding end corrugations on two collars 14 and 15, the latter being rigidly secured to the wire 2, and the collar 14 being slidable on the wire 2 toward and from the collar 15. To hold the collar 14 from turning on the wire 2, it has at one end a slot 16, Fig. 4, into which extends a pin 17, which is mounted in the wire 2. For normally forcing the collar 14 into engagement with the collar 11, there is provided a coil spring 18 which encircles the wire 2, and which bears at one end against the collar 14, and which bears at its other end against a collar 19 secured on the wire 2.

By means of this arrangement, each wing may be swung, independently of the other wing to any desired position within its range of movement. The corrugations 13 releasably hold the wings in the positions to which they may be swung.

Each of the wire wing frames 10 is covered with material, such as cloth 20, which is preferably translucent so as to permit the passage of some light from the lamp therethrough.

The shade is well adapted for use in connection with an incandescent electric lamp 5, which is supported by a flexible tube 21, which may be attached to a stand, not shown, and which contains the wires with which the lamp is connected, and which may be adjusted in the usual manner to different positions, the tube having sufficient rigidity to retain the position in which it is placed.

The wire 1 at one end may have formed therein a small loop 22, which is covered with the cloth 9, and which thus forms the

head of the butterfly, which the device simulates. To increase the effect of such simulation, the cloth 9 which covers the head loop 22 may have attached thereto cloth covered wire coils 23, which simulate the antennæ of the insect. The cloth 9 of the body, and the cloth 20 of the wings, may be colored or otherwise decorated to simulate the markings of the body and wings of the insect of which the device is a simulation.

In the use of the device, the arms 7 are engaged with the reflector 4, see Fig. 2, after which the wings may be adjusted to the positions desired.

I do not limit my invention to the structure shown and described, as many modifications, within the scope of the appended claims, may be made, without departing from the spirit of my invention.

What I claim is:—

1. A lamp shade of the kind described, comprising a body, two collars held from rotation on the body, one collar being movable toward and from the other collar, each collar having end corrugations, a spring normally forcing the collars toward each other, and two wings having each a collar rotatable on the frame of the body, the wing collars being mounted between the body collars and having corrugations respectively for engaging the corrugations of the body collars, whereby the wing collars are releasably held in the positions to which they may be adjusted, the wings having respectively two frames and translucent covering for the last named frames, the latter being attached to and movable with the wing collars, substantially as set forth.

2. A lamp shade of the kind described comprising a body and wings hinged thereto and adjustable to different positions, the body and wings simulating the body and wings respectively of a winged insect, the body comprising a frame having a central longitudinal wire and means for releasably attaching the body to an electric lamp or the reflector therefor, two collars secured on said wire against rotation, one collar being slidable toward and from the other collar, a coil spring encircling the wire and forcing the movable collar toward the other collar, the wings comprising respectively two wire frames covered with translucent material forming the webs of the wings, and two collars rotatable on said wire and bearing against each other and against the body collars respectively and attached respectively to the wing frames, substantially as set forth.

3. A lamp shade of the kind described comprising a body having a wire frame and wings attached to said frame, the body and wings simulating the body and wings of a winged insect, and a resilient member attached to the frame and arranged to brace the latter and having two arms adapted to embrace and to be supported by an electric lamp or the reflector therefor.

In testimony whereof I have signed my name to this specification.

ROBERT FRONZEK.