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LAMP SHADE

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Fig. 1.

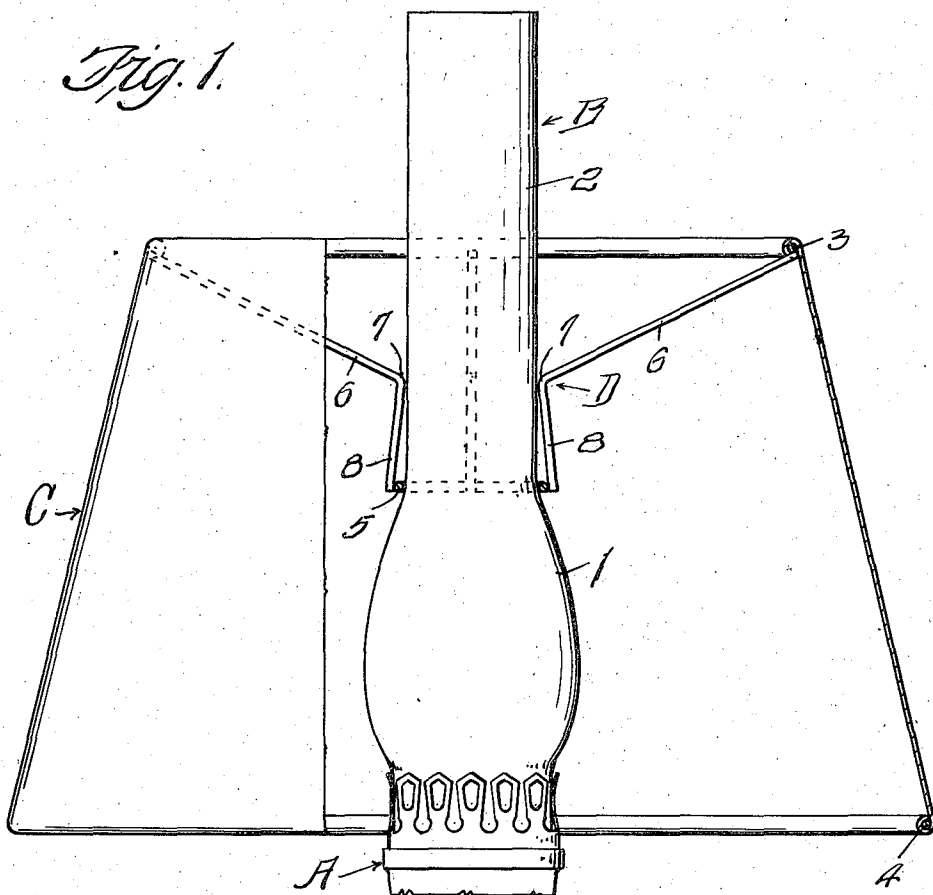
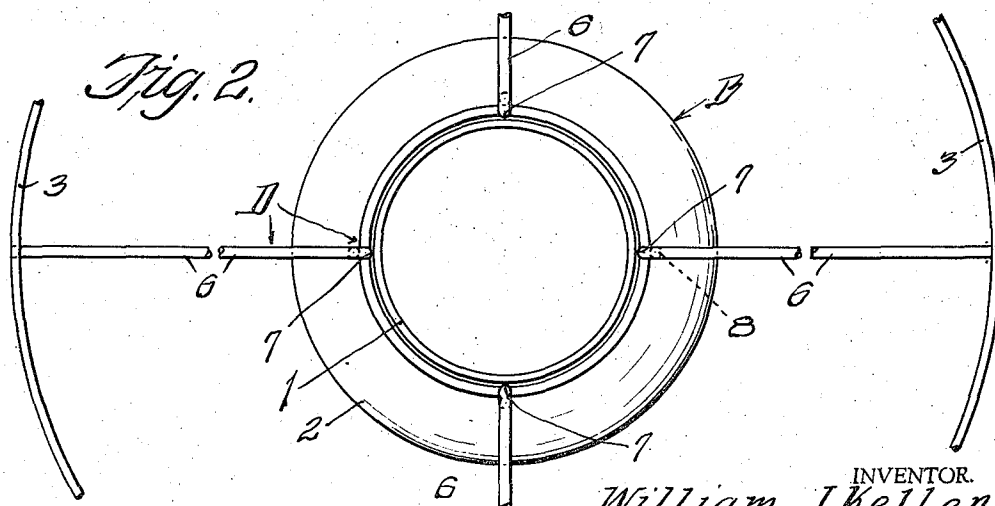


Fig. 2.



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LAMP SHADE

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3 Claims. (Cl. 240-139)

This invention relates, generally, to lamp shades and more particularly to the type of lamp shade that is supported directly by the glass chimney of a lamp.

5 The primary object of the present invention is to support the shade concentric with the chimney in such a manner as to prevent tilting thereof relative to the chimney.

10 A further object of the invention is to provide a wire spider structure for the shade having a ring contact therewith and a plurality of point contacts therewith above the ring contact.

15 Other objects of the invention are to provide an article of the class mentioned which will be comparatively simple and inexpensive in the cost of manufacture, wherein the shade is readily applied to a lamp chimney and removed therefrom, and, when supported by the lamp chimney, is held against tilting displacement relative thereto.

20 All of the above and still further objects and advantages of the present invention will become apparent from a study of the following specification read in connection with the accompanying drawing, wherein like characters of reference denote corresponding parts throughout the several views, wherein:—

30 Fig. 1 is a view partly in sectional side elevation and partly in sectional elevation of a lamp shade embodying the features of my invention, and shown as supported by the chimney.

Fig. 2 is a top plan view of the invention with parts thereof broken away, and shown as supported by a glass lamp chimney.

35 Referring to the drawing, the reference character A designates a lamp burner, preferably oil lamp burner, and, the reference character B designates, generally, a glass lamp chimney having a bulged tubular lower portion 1 and a straight upper tubular portion 2.

40 The reference character C designates, generally, the lamp shade which is adapted to be supported by the chimney B as hereinafter described.

45 The shade designated, generally, as C, comprises an upper wire ring 3, a lower wire ring 4 preferably of larger diameter than the upper ring 3, the shade material 4 connecting the two rings 3 and 4, and a wire frame structure designated, generally, as D, which is suspended from the upper ring 3.

50 In carrying out the present invention, I employ, in combination with the upper ring 3, a relatively small wire ring 5 which ring is slightly larger in diameter than the outside diameter of the upper straight tubular portion 1 of the chimney B, and, which is adapted to rest on the upper end

of the bulged portion 2 of the chimney adjacent the lower end of chimney portion 1, as will be more clearly apparent hereinafter.

As clearly shown in the figures of the drawing, the wire frame structure includes the upper ring 5 and the chimney engaging ring 5 and the rings are connected by means of a plurality of wire arms, which will now be described.

10 Each arm, of which there are four shown, but which may be of any desired number, such as three or more, includes an inwardly and downwardly or horizontally inclined wire arm portion 6 which terminates in an arcuately bent corner 7 and which, in turn, projects downwardly and slightly outward to provide vertically inclined wire arm portions 8. The outer end of each arm portion 6 is suitably secured to the wire ring 3, such as by soldering, or welding, and, the lower end of each arm portion 8 is suitably secured to the ring 5, such, for instance as by soldering, or welding.

20 It will be apparent that the upper ring 3, the lower ring 5 and their connecting arms form the wire frame or spider structure, and that the ring 5 of said structure encircles the chimney B and is supported thereby, as hereinbefore described.

25 The corners 7 of said arms substantially engage, or contact the upper portion 1 of the lamp chimney B for holding or bracing the lamp shade proper concentric with the chimney, and, to prevent any possible tilting displacement of the shade relative to the chimney, due to the fact that the arm corners 7 serve to point contact the chimney a suitable distance above the chimney engaging ring 5.

35 The arms of the frame, or spider structure D serve as brace arms, and in use, the corner portions 7 thereof will spread or expand outwardly with the chimney, when the chimney becomes hot, due to the angular construction of the wire arms, and, they will contract or move toward the longitudinal axis of the chimney when the chimney becomes cold. The vertically inclined arm portions 8 of the spider structure form a sort of skeleton sleeve for the chimney to pass through, with the ring 5 secured thereto serving as means to be seated on the upper end of the bulged portion of the chimney B.

40 A lamp shade structure as hereinbefore described, is substantially held in a non-tilting position upon the chimney, and, it is readily and quickly mounted upon the chimney and removed therefrom and will not have a tendency to crack the chimney, due to the fact that the ring 5 will automatically raise itself upon the chimney when

the chimney becomes hot and expands as it is slightly larger in diameter than the straight tubular portion 1 thereof, and, because of the fact that the corners 7 of the arm portions 6 and arms 5 8 flex outwardly with expansion of the chimney portion 1 when the chimney becomes hot, and return to normal position as the chimney cools off.

The many advantages of the herein described invention will readily suggest themselves to those 10 skilled in the art to which it appertains.

While I have herein described the preferred embodiment of the invention, it is, of course, understood that minor changes in the construction, arrangement and combination of parts may be 15 made, wherein they do not involve the exercise of invention and fairly fall within the scope of the appended claims.

What I claim is:

1. In a lamp shade, in combination, a pair of 20 wire rings having shade material connecting the rings, a spider including a plurality of arms and a ring adapted to be seated upon and around a lamp chimney, and said arms being bent intermediate their ends to form knees adapted to con- 25 tact the chimney at points above the ring to hold the shade concentric with the chimney.

2. In a lamp shade, in combination, a pair of wire rings having shade material connecting the same, a spider including a plurality of arms and a chimney ring, the arms being connected at their inner ends to the chimney ring and at their outer ends to one of the said pair of rings, the chimney ring adapted to be seated upon and around a lamp chimney, and said arms being bent intermediate their ends to form knees adapted to contact the chimney at points above the chimney ring and to 10 provide relatively short arm portions disposed out of parallel relation with the axis of the chimney between the knees and the chimney ring.

3. A spider for lamp shades including a chimney ring and a plurality of spider arms, the spider 15 arms being bent intermediate their ends to provide inclined long portions adapted to be secured to an upper shade ring and the short portions secured to the outside of the chimney ring, and, by being bent, providing knees for contact with a 20 chimney at points above the chimney ring, which ring is adapted to be seated upon and around the chimney and with the short portions of the spider arms out of contact with the chimney between the knees and the chimney ring. 25

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