April 23, 1946. H. STORM 2,398,974

ELECTRIC LAMP WITH TWO SHADES

Filed April 14, 1944

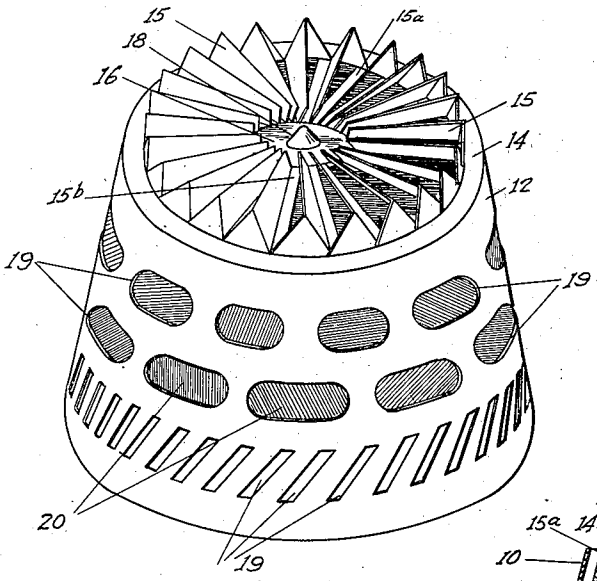


Fig 2

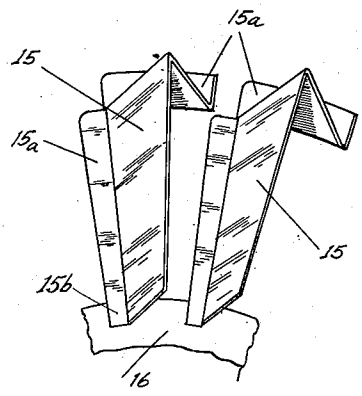


Fig 3

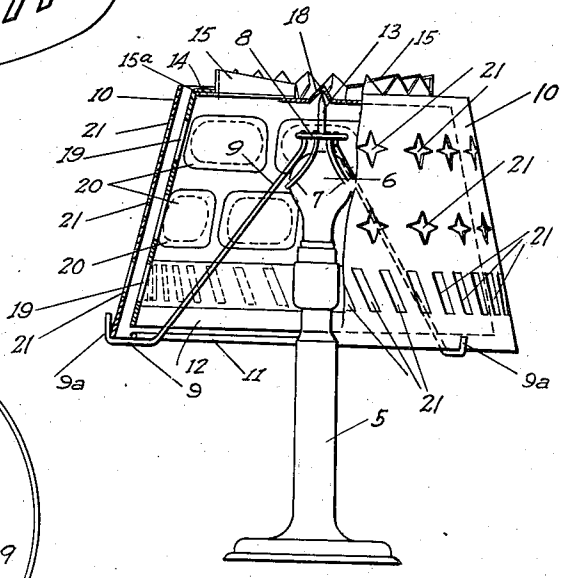


Fig. 1

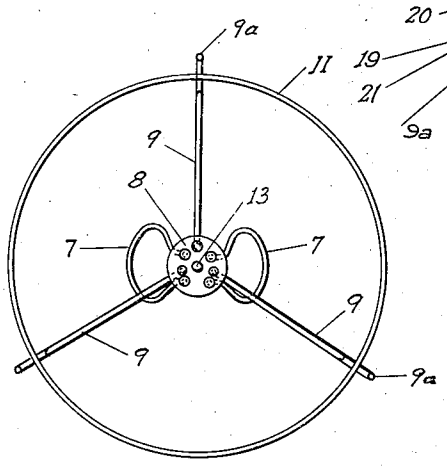


Fig. 4

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ELECTRIC LAMP WITH TWO SHADES

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Application April 14, 1944, Serial No. 531,013

2 Claims. (Cl. 240—49)

This invention relates to ornamental lighting devices such as are used in store windows, cafés and on radio cabinets; the object being to attract attention in the case of store window display.

Another object of the invention is to provide a scintillating lamp that can be produced at comparatively low cost, and which has a minimum of moving parts.

In the accompanying drawing, forming a part of this specification, like numerals are employed to designate like parts throughout same.

Referring to the accompanying drawing:

Fig. 1 is an elevation showing my invention, partly in section to show internal arrangement thereof.

Fig. 2 is an isometric view of the revolving inner shade.

Fig. 3 is an isometric view of two (2) of the propelling vanes.

Fig. 4 is a plan view of the wire frame which supports the shades.

In Figure 1, is disclosed a suitable lamp standard 5, which is furnished with an electric light socket and electric light bulb 6. To said bulb is clamped by means of the wire loops, 7—7, a wire framework, consisting of a disk 8 in which the said loops 7—7 are riveted, and a plurality of supporting arms 9—9, etc.; which are likewise riveted to said disk 8 and which extend radially outwards and downwards, their outer ends terminating in a small upwardly bent portion 9*a* to support and confine in position the outer lamp shade 10.

The said arms 9, are further held in relative position by a wire ring 11 to which they are welded.

The wire loops 7—7 hold the frame in place by their opposing spring action. Suspended within the said outer shade 10 and conforming in shape with same is, an inner shade 12, enough clearance being provided between the two shades to allow the said inner shade to revolve in respect to its vertical axis without interference.

Both inner and outer shades are preferably of the usual conical shape, the said inner shade being furnished with an inwardly projecting flange 14 around its upper rim to which is attached a plurality of radially disposed propeller vanes 15—15, etc.; by means of outwardly turned lugs 15—*a*, said vanes converge toward and are affixed to a concentrically disposed hub plate 16 at 15—*b*.

The inner shade 12 is pivotally mounted upon an upwardly projecting pintle 13 which latter is riveted into the disc 8; the upper end of said pintle 13 is tapered to a point which point fits into an upwardly extended recess 18 in the center of the hub plate.

The aforementioned propeller vanes are "pitched" at such an angle to a horizontal plane that a current of rising air will cause them to rotate.

The atmosphere encompassed within the said inner shade, on becoming heated by the medium of the electric light bulb during operation, loses density thereby and forms an upward current and drives the propeller vanes in the manner of a turbine, the tapered end of the aforementioned pintle support offering very slight frictional resistance.

The recited inner shade 12 has a plurality of apertures 19—19, etc., arranged in its encompassing walls, preferably in annular bands and of varying sizes and shapes, each aperture being covered or "glazed" with some thin transparent material such as Cellophane 20—20, which may be plain or vari-colored. A system of apertures 21—21, etc., is provided in the walls of recited outer shade, these apertures registering with apertures 19—19 in like annular disposition and in such manner that light from the aforementioned electric bulb will shine intermittently through the said two systems of apertures and thereby through the rotational movement of the said inner apertures, produce a scintillating effect.

Having thus described my invention, I am aware that changes may be made without departing from the spirit of the invention and I claim:

1. The combination with an electric lamp bulb, of a shade structure supported by and surrounding said lamp bulb and comprising a disc, a pair of wire loops secured to and depending from said disc, which loops engage and grip the upper portion of said lamp bulb, a wire frame secured to said disc and extending outwardly and downwardly therefrom, an outer shade having a perforated wall supported on the lower portion of said frame, a pintle projecting upwardly from the center of said disc, said pintle having a pointed upper end, an inner shade having a perforated wall, a centrally arranged plate at the top of said inner shade, a conical bearing at the center of said plate, which bearing receives the pointed upper end of said pintle and inclined vanes connected to and disposed between said plate and the upper edge of the wall of said inner shade.

2. The combination as set forth in claim 1 and with walls of thin transparent material closing the perforations in the wall of the inner shade.

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