Nov. 3, 1936. M. PRETZFELDER 2,059,653

CHRISTMAS TREE ORNAMENT

Filed Feb. 14, 1936

Fig. 1.

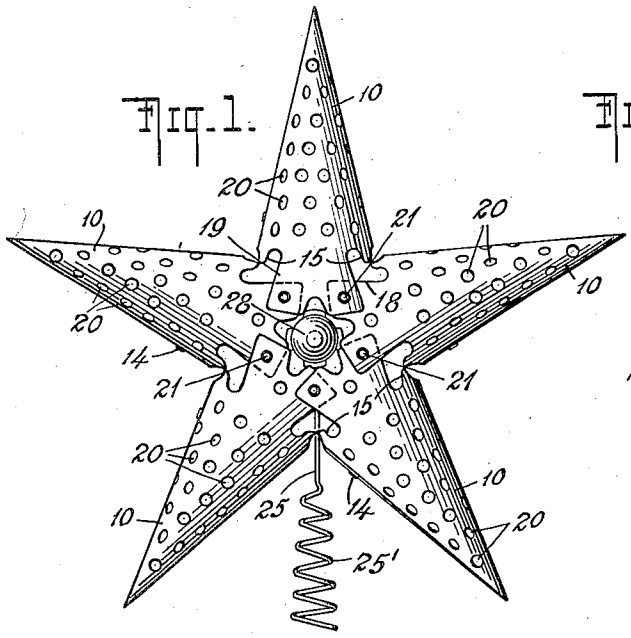


Fig. 2.

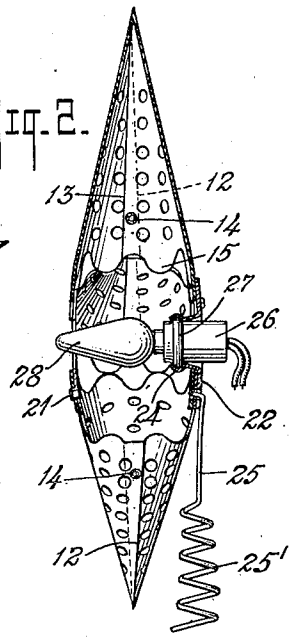


Fig. 3.

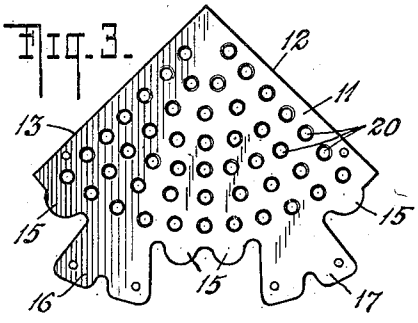


Fig. 4.

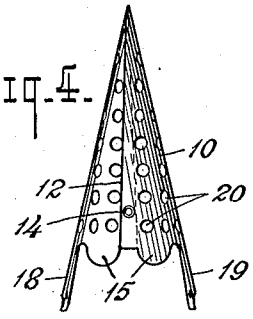


Fig. 5.

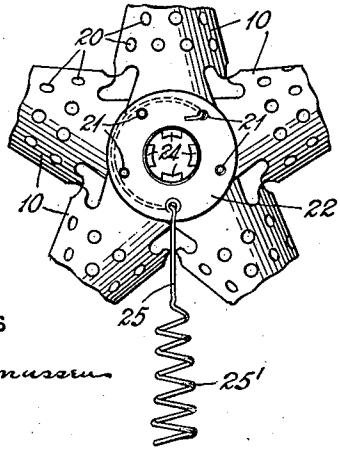
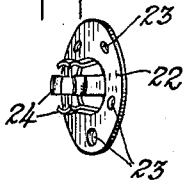


Fig. 6.



WITNESS

G. V. Rasmussen

INVENTOR

MILLARD PRETZFELDER

BY

Nissen & Schmidt

ATTORNEYS

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UNITED STATES PATENT OFFICE

2,059,653

CHRISTMAS TREE ORNAMENT

Millard Pretzfelder, St. Albans, N. Y., assignor to Paper Novelty Manufacturing Co., New York, N. Y., a corporation of New York

Application February 14, 1936, Serial No. 63,821

9 Claims. (Cl. 41—10)

My invention relates to an ornament, and more particularly to a reflector structure to be used in connection with an incandescent lamp, the unitary structure of ornament and lamp being used in the decoration of a Christmas tree.

An object of my invention is to provide an ornament in simulation of a star constituted of a plurality of apertured conical elements secured together to form a body, to which may be applied a miniature incandescent lamp, the entire unitary structure being adapted to be secured to the upper extremity, for instance the central stem, of a Christmas tree. A more particular object of my invention is to provide such a structure of ornamental character which is effective to so diffuse the rays of light emanating from the centrally disposed incandescent light bulb, through a multiplicity of apertures provided throughout the body of the ornament, as to present a most pleasing and effective display of the star.

In attaining these objects, I provide an ornament made up of a plurality of conical sections joined together at their bases and having their apices extend in a multiple of directions, depending upon the number of conical sections constituting the ornamental device, each of such conical sections being provided with a multiplicity of apertures through which light rays are reflected from the interior surfaces of such conical sections.

A further feature of my invention consists in the provision of means for mounting the ornament upon a Christmas tree.

The ornamental device forming the subject matter of the present invention, may advantageously have applied to the conical sections making up the same, an exterior surface finish of any desired color, or combination of colors. The ornamental effect of such coloring of the exterior surfaces of the sections of the ornament are appreciably enhanced by providing the inner surfaces of such conical sections with a highly reflective surface, for instance, as may be secured by forming such sections from highly polished metal foil. Thus, the rays of light emanating from the incandescent bulb disposed centrally of the ornament, will be reflected from the interior surfaces of the conical sections through the multiplicity of apertures therein against the colored exterior surfaces of adjacent conical sections of the ornament, thereby producing an effective diffusion of the light rays emanating from the single source, namely the electric light bulb, throughout the exposed surfaces of the ornament.

A particular embodiment of my invention is illustrated in the accompanying drawing in which Fig. 1 is a face view of a Christmas tree ornament constructed in accordance with my invention; Fig. 2 is a vertical section therethrough; Fig. 3 is a plan view of a blank of material from which one of the conical elements of the ornament is formed; Fig. 4 is a side view of one of the conical elements; Fig. 5 is a rear view of the central portion of the ornament; and Fig. 6 is a perspective view of the disc and spring fingers constituting the mounting structure for the incandescent lamp socket.

Referring more particularly to the drawing, in which similar reference characters identify similar parts in the several views, 10 designates one of the plurality of conical elements forming the ornament. In the illustrated embodiment, I have shown five such conical sections as forming the ornamental structure, but it is to be understood, of course, that a lesser or greater number of such conical sections may be utilized to form the ornament.

Each of the conical sections 10 is formed from a flat blank 11 (Fig. 3) joined at the edges 12 and 13 of such blank by a rivet 14. The arcuate base of the blank 11 is preferably provided with a plurality of semi-circular extensions 15 forming, when the blank has been turned into the conical section, a scalloped edge along the bottom thereof. Each of the blanks 11 has formed integrally therewith extensions 16 and 17 which, when the blank 11 has been formed into the conical section 10, depend, from the cone, as tabs 18 and 19 indicated in Fig. 4.

The blank 11 is provided with a large number of apertures 20 which, when the conical section 10 has been formed from the blank, are distributed throughout the surface of the section.

One side of the blank 11 has a highly polished reflective surface, while the other face thereof may have applied thereto a particular color, or combination of colors. In forming the conical section 10, the face of the blank 11, having the highly reflective surface, constitutes the interior surface of the conical section, and the colored face of such blank becomes the exterior surface of the conical section.

In forming my novel Christmas tree ornament, a plurality of conical sections 10 are joined together by means of adjacent tabs 16 and corresponding adjacent tabs 17, on the opposite side, in the manner indicated in Fig. 1, such adjacent tabs being fastened together by means of rivets 21. The disposition of the conical sections 10 in forming the ornament, is such that they consti-

tute a unitary structure in the form of a star, the apices of the conical sections lying in substantially the same plane, and corresponding to the apices of the segments of the star.

When the ornament has thus been assembled, there may be applied to the central portion thereof an annular disc 22 having a plurality of apertures 23 in the face thereof. Extending from the inner edge of the annular disc are a plurality of spring fingers 24 for the purpose hereinafter more fully to be described.

The means for mounting my novel ornament upon the central stem of a Christmas tree comprises a wire 25 formed at its lower end with a plurality of convolutions 25', increasing in diameter downwardly. The upper end of the wire 25 is passed through one of the apertures 23 of the annular disc 22 and is then led along the periphery of the disc beneath such disc and anchored within another of the apertures 23. Such aperture 23 may conveniently correspond to the rivets 21 which, in such case, are of the eyelet type. The ornament may thus be mounted upon a vertically extending stem of the Christmas tree by passing the convolutions 25' of the wire 25 over such stem until the ornament is securely seated upon such stem.

In assembling my novel Christmas tree ornament preparatory to the securement thereof upon the Christmas tree as just described, a socket 26 is passed through the central aperture of the annular disc 22 until a flange 27 provided on such socket is seated within the curved extremities of the spring fingers 24. The incandescent light bulb 28, usually of miniature size, may be secured within the socket 26 before such socket is clamped within the spring fingers 24, or it may be inserted into such socket from the front of the ornament through the space between the bases of the conical sections 10.

When the light bulb 28 is illuminated, the rays of light emanating therefrom are diffused throughout the interior space of the ornament and are reflected by the highly polished interior surfaces of the conical sections 10. Such reflected rays of light, being greatly enhanced in effect by reason of the repeated reflection thereof by the highly polished surfaces which act in the nature of mirrors, and emanating from the apertures 20 of the various cone sections are diffused in all directions, some striking the colored exterior surfaces of the adjacent conical sections and thereby producing an extremely effective illumination of the entire ornamental structure.

While I have described a particular embodiment of my invention, it is to be understood that various modifications therein, particularly in the number, arrangement and configuration of the several parts thereof, may be made without departing from my invention.

I claim:

1. As an article of manufacture, a reflector ornament adapted for use in the decoration of a Christmas tree, comprising a plurality of substantially conical sections joined together at their lower extremities to form a unitary body, means for securing said unitary body to a Christmas tree in upright position, and an annular disc secured centrally of the rear face of the ornament and having a plurality of spring fingers extending into the body of the ornament and securing an electric light bulb within the body of the ornament.

2. As an article of manufacture, a reflector ornament adapted for use in the decoration of a Christmas tree, comprising a plurality of substantially conical sections joined together at their lower extremities to form a unitary body, and means for securing said unitary body to a Christmas tree in upright position, the conical sections being provided with a multiplicity of apertures and the interior surfaces thereof being of a highly reflective character.

3. A Christmas tree ornament comprising a plurality of substantially conical sections, each having a pair of tabs extending from its lower edge, and joined together at their lower extremities by means of such tabs to form a unitary body, means for securing said unitary body to a Christmas tree in upright position, and an annular disc secured centrally of the rear face of the ornament and having a plurality of spring fingers extending into the body of the ornament and securing an electric light bulb within the body of the ornament.

4. As an article of manufacture, a reflector ornament adapted for use in the decoration of a Christmas tree, comprising a plurality of substantially conical sections having highly polished reflective interior surfaces and colored outer surfaces, said conical sections being joined together at their lower extremities to form a unitary body having the apices of the conical sections lying in substantially the same plane, and means for seating said unitary body upon a branch of a Christmas tree in upright position.

5. As an article of manufacture, a reflector ornament adapted for use in the decoration of a Christmas tree, comprising a plurality of substantially conical sections having light reflecting surfaces, joined together at their lower extremities to form a unitary body having the apices of the conical sections lying in substantially the same plane, and means for seating said unitary body upon a branch of a Christmas tree in upright position, said conical sections being provided with a multiplicity of apertures.

6. As an article of manufacture, a reflector ornament adapted for use in the decoration of a Christmas tree, comprising a plurality of substantially conical sections having light reflecting surfaces, joined together at their lower extremities to form a unitary body having the apices of the conical sections lying in substantially the same plane, means for seating said unitary body upon a branch of a Christmas tree in upright position, and an annular disc secured centrally of the rear face of the ornament and having a plurality of spring fingers extending into the body of the ornament and securing an electric light bulb within the body of the ornament.

7. As an article of manufacture, a reflector ornament adapted for use in the decoration of a Christmas tree, comprising a plurality of substantially conical sections having light reflecting surfaces, joined together at their lower extremities to form a unitary body having the apices of the conical sections lying in substantially the same plane, and means for seating said unitary body upon a branch of a Christmas tree in upright position, said conical sections being provided with a multiplicity of apertures and having their interior surfaces of a highly reflective character.

8. A Christmas tree ornament comprising a plurality of substantially conical sections having highly polished reflective interior surfaces and colored outer surfaces, each of said conical sections having a pair of tabs extending from its

lower edge, the sections being joined together at their lower extremities by means of such tabs to form a unitary body having the apices of the conical sections lying in substantially the same plane, and means for seating said unitary body upon a branch of a Christmas tree in upright position.

9. A Christmas tree ornament comprising a plurality of substantially conical sections, each having a pair of tabs extending from its lower edge, and joined together at their lower extremities by means of such tabs to form a unitary body having the apices of the conical sections lying in substantially the same plane, means for seating said unitary body upon a branch of a Christmas tree in upright position, and an annular disc secured centrally of the rear face of the ornament and having a plurality of spring fingers extending into the body of the ornament and securing an electric light bulb within the body of the ornament.

MILLARD PRETZFELDER.