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A. E. DIXON

LAMP SHADE AND PROCESS FOR MAKING THE SAME

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Fig. 1.

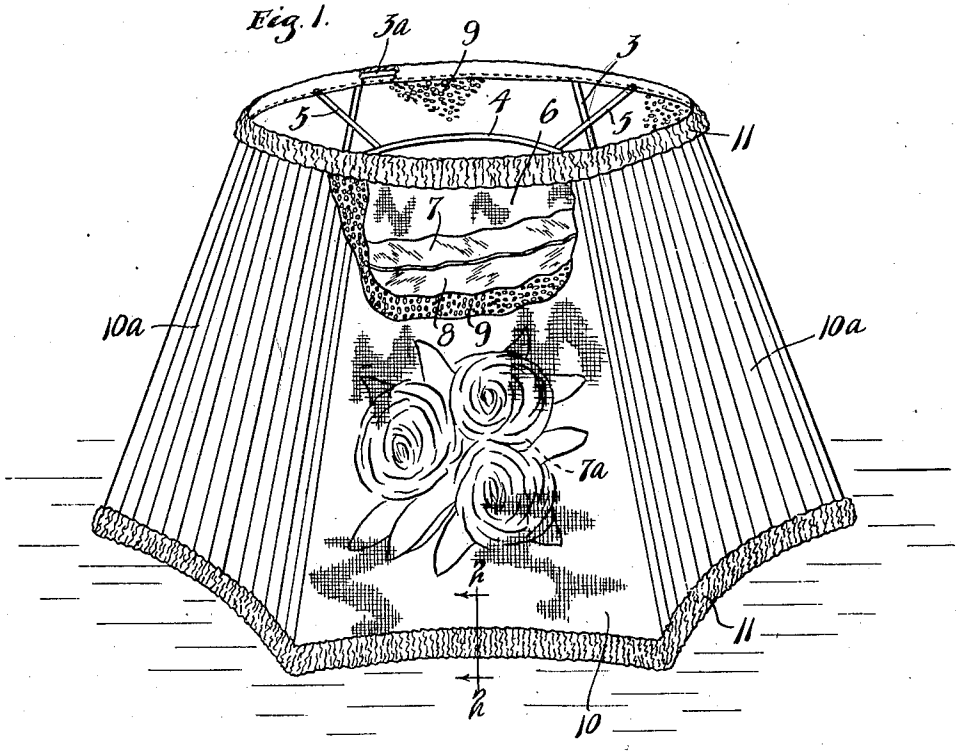
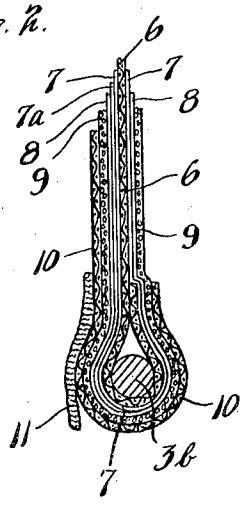


Fig. 2.



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UNITED STATES PATENT OFFICE.

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LAMP SHADE AND PROCESS FOR MAKING THE SAME.

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This invention relates to ornamental lamp shades and the process of manufacturing the same, and especially to lamp shades which give different optical and color effects when unlighted and lighted.

It is the main object of the invention to provide an exceedingly simply but highly decorative lamp shade capable of being manufactured easily and at little expense which will give beautiful color effects when lighted and which, when unlighted, will give a very different, although ornamental, appearance.

More specifically it is the object of the invention to provide a lamp shade covered with attractive fabric sufficiently transparent to reveal a design on the body thereof and provided with walls or coatings which, when light is applied therewithin, will give the effect of translucent stained glass or crystals, also bringing out the various color effects not visible when the shade is unlighted.

It is a further object to provide a lamp shade having a backing or body of inexpensive fabric and having on either side thereof a coating formed of a plurality of small glass beads or crystals with an outer covering or decorative fabric thereover.

A still further object of the invention is to provide a simple but highly efficient process for making or manufacturing the device above described.

These and other objects of the invention will be apparent from the following description made in connection with the accompanying drawings in which like characters refer to similar parts throughout the several views and in which—

Fig. 1 is a perspective view of the embodiment of the invention with some parts broken away; and

Fig. 2 is a vertical section on a greatly enlarged scale taken on the line 2—2 of Fig. 1.

In the manufacture of the device hereinafter described a suitable skeleton frame 3 of standard formation is provided, having the upper and lower hoops 3^a and 3^b, respectively, and equipped at its top portion with the annular collar 4 adapted to engage a support or the bulb of the light. Collar 4 is secured to frame 3 by means of radial stays 5.

Over this truncated conical skeleton frame, the backing or body 6 of the shade is stretched, preferably comprising a sheet of cheap fabric such as cheese cloth. Applicant finds that by cutting a hole in a single sheet of material the same may be stretched out to conform to the shape of frame 3. The top and bottom portions of covering 6 are stitched or otherwise secured to the hoop members 3^a and 3^b of said frame. The body of the shade is then preferably dipped into lacquer or shellac 7 and, thereafter, permitted to dry. This treatment makes the fabric 6 more transparent and, moreover, glazes the outer and inner surfaces thereof. The outer surfaces of the glazed covering are colored or tinted as desired and the designs 7^a painted, stenciled or otherwise placed thereon. When the coloring and designs are dry, a layer or coating 8 of some adhesive self-hardening material, such as varnish, is applied to both sides of the decorated and glazed body. Said coating 8 may be applied by an air-brush, or by dipping, or by any other suitable manner. Immediately after the application of said adhesive coating, a quantity of small transparent particles are scattered, or otherwise applied to both sides of said body, adhering thereto and forming transparent crystalline layers 9. Preferably the small particles used are in the form of glass beads or chips.

Over the outer layer 9 of particles, an ornamental covering or sheet 10 of fabric is stretched, secured at the top and bottom about the edges of the body and the hoop members 3^a and 3^b of the frame. Applicant prefers to leave certain portions of the said covering with a single thickness of fabric thereover, while other portions are covered with fluted or folded portions 10^a of the fabric. The fabric used is sufficiently thin to be partially transparent but having sufficient body to dull the crystalline effect of the outer layer of beads 9. Ornamental fringes 11 are secured to the top and bottom hoops 3^a and 3^b, respectively, finishing off the appearance of the shade.

When the shade is unlighted, the designs and colors to some extent will be revealed through the single layer of fabric 10 thereover, although the shade will appear opaque. The outer covering 10 is preferably of some color different from the tinting or coloring placed on the glazed surface 8. When the shade is lighted, the designs, colorings and tints will appear more clearly and the transparent crystalline formation of the beaded

layers 9 will cause the shade to resemble etched glass or a substantial body formed of crystals. Various beautiful color effects may, of course, be created by decorating the glazed surface 7 in different manners and in different colors. The plurality of beads or transparent particles on either side of the fabric body 6 deflect small rays of light in much the same manner as prisms and produce very pleasing and luminous effects.

It will be seen from the foregong description that applicant has invented a very beautiful and practical lamp shade capable of being manufactured at little expense and giving entirely different optical and luminous effects when lighted and unlighted.

It will, of course, be understood that various changes may be made in the form, details, proportions, and arrangement of parts without departing from the scope of the invention.

What is claimed is:

1. A lamp shade comprising a hollow frame, a covering of flexible fabric mounted on the sides thereof, a coating formed of a plurality of relatively small transparent particles on one side of said covering and a sheet of translucent fabric covering the outer sides of the lamp shade whereby the same will normally present an opaque appearance but will be rendered translucent and crystalline when light is emitted therewithin.

2. A lamp shade comprising a hollow frame, a covering of fabric mounted on the sides thereof, a layer of adhesive self-hardening material on one side of said covering, a coating set in said adhesive material formed of a plurality of relatively small transparent particles, and a sheet of translucent fabric covering the outer side of the lamp shade whereby the same will present an opaque appearance normally but will be rendered translucent and crystalline when light is emitted therewithin.

3. A lamp shade comprising a skeleton frame, a sheet of flexible fabric mounted about the sides thereof, a coating formed of a plurality of relatively small transparent particles on the inner side of said sheet and a similar coating of small transparent particles on the outer side thereof, and a sheet of translucent fabric covering said outer coating whereby said lamp shade will present an opaque appearance normally but will be rendered translucent and crystalline when light is emitted therewithin.

4. The process of making a lamp shade which consists in providing a skeleton frame, stretching and securing a flexible sheet of fabric over the sides thereof, dipping said sheet in lacquer to render said sheet more transparent and to glaze the inner and outer surfaces thereof, tinting or coloring portions of the outer side of said coating of lacquer, applying a coating of adhesive self-hardening material to either side of said lacquered and colored sheet and applying a layer of small transparent particles to said coating of adhesive material on either side of said sheet and permitting said adhesive material to harden.

5. The process of making a lamp shade which consists in providing a skeleton frame, stretching and securing a flexible sheet of fabric over the sides thereof, dipping said sheet in lacquer to render said sheet more transparent and to glaze the inner and outer surfaces thereof, tinting or coloring portions of the outer side of said coating of lacquer, applying a coating of adhesive self-hardening material to either side of said lacquered and colored sheet and applying a layer of small transparent particles to said coating of adhesive material on either side of said sheet, permitting said adhesive material to harden, and covering the outer sides of said prepared sheet with a sheet of translucent fabric adapted to render said lamp shade opaque normally, and transparent, colored and crystalline when light is emitted within said frame.

In testimony whereof I affix my signature.

ALFRIE E. DIXON.