Feb. 26, 1935. E. SCHWARZ 1,992,676

LIGHT TRANSMITTING BODY

Filed June 15, 1933

Fig. 1.

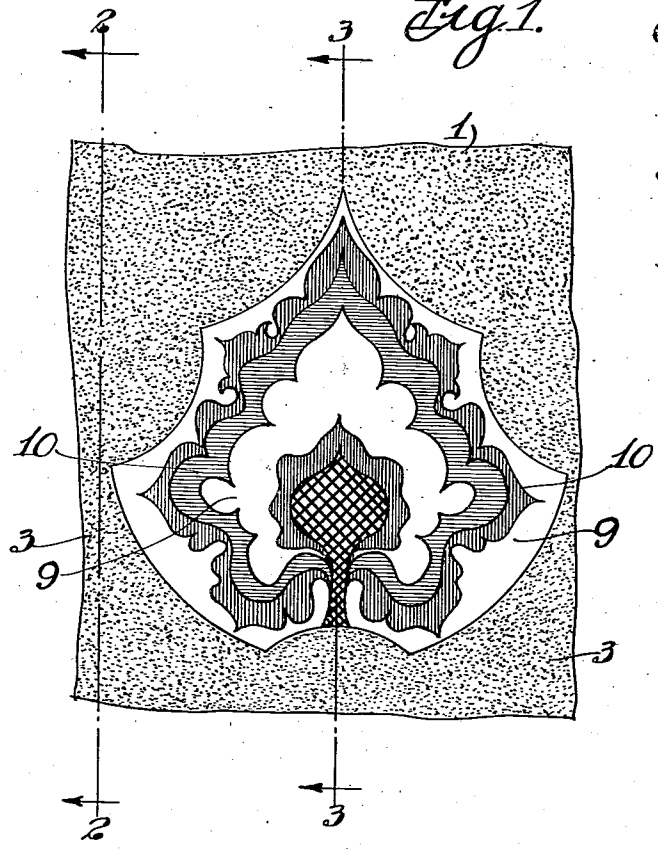


Fig. 2.

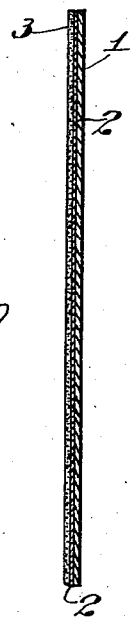
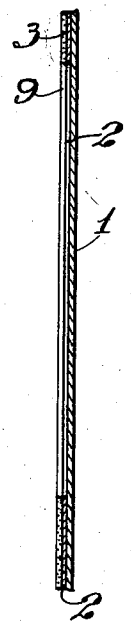


Fig. 3.



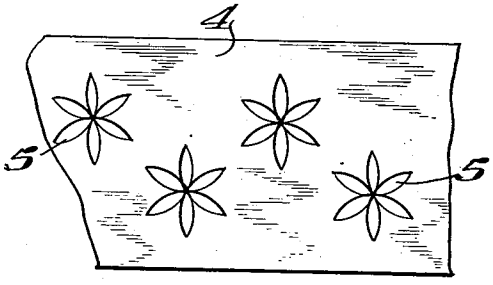


Fig. 4.

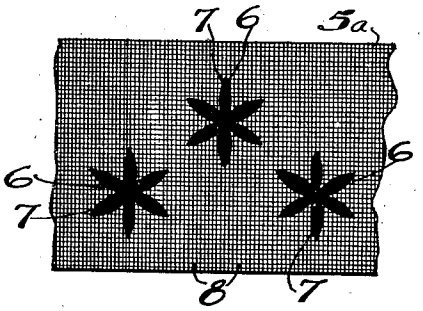


Fig. 5.

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LIGHT-TRANSMITTING BODY

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Application June 15, 1933, Serial No. 675,875

15 Claims. (Cl. 41—21)

My invention relates to light-transmitting bodies of any kind, and is especially applicable to lamp shades, wherein novel decorative or color effects are desired.

In carrying out the invention, I coat a surface of highly translucent or transparent material, as for instance transparent cellulose acetate sheets or translucent parchment paper sheets with flock, made from finely comminuted particles of wood fibre, cotton, wool, silk, or other flocculent material capable of producing a translucent coating. This coating, which resembles a mist, and, optically considered, clouds transmitted light, may be applied to a surface of the sheets in such a manner as to vary the translucency of portions of the sheets to thereby produce ornamental and pleasing designs. Physically, the surface will be of suede-like character.

In the accompanying drawing, Figure 1 is a fragmentary view of a sheet embodying the invention;

Figure 2 is an enlarged cross-sectional view taken on the line 2—2 of Figure 1;

Figure 3 is another enlarged cross-sectional view taken on the line 3—3 of Figure 1;

Figure 4 shows a stencil; and

Figure 5 shows an open-mesh stencil.

In carrying out my invention, as an example, I apply to a surface of parchment paper 1 a translucent or transparent adhesive 2, such as, for instance, varnish or lacquer, and while this adhesive is still in a tacky condition an excess of flock 3 of desired shades, colors or translucency, is dusted thereon. Said adhesive is then allowed to dry. The excess flock is then shaken, dusted or sucked away from the surface of the paper. The remaining flock, which adheres to the paper, forms a suede-like coating through which any ornamentation on that surface may be seen. Also, ornamentation may be formed on the suede-like surface.

This adhesive coating may be applied to the entire surface of the paper, or to selected areas thereof, to thereby produce desired designs. For this purpose, a stencil 4, which determines the areas to which the adhesive is to be applied, may be employed, or, as an alternative, the adhesive may be printed or sprayed on the parchment paper.

The stencil 4 may, as shown in Figure 4, be a metal sheet having openings 5 of desired designs through which the adhesive 2 may be laid on the surface of the parchment paper 1, but, preferably, said stencil is an open-mesh silk screen 5*a*, shown in Figure 5, selected areas 6 of which are masked by a substance 7 which closes the meshes at those areas, so that the adhesive 2 reaches the surface of the parchment paper only through the still open meshes 8 of said silk screen.

Preferably, the parchment paper 1 is ornamented with translucent and colored designs before the adhesive 2 and the flocculent coating 3 are applied, although, if desired, only uncovered areas 9 of said paper may later be thus ornamented, or said ornamentation may, at the same time be applied to the covered areas.

While it is preferable to apply the ornamentation and the flocculent coating to the same surface of the sheet of parchment paper, satisfactory results may be attained by ornamenting one surface of said sheet, and by applying the flocculent coating to the other side thereof, said sheet being so highly translucent that transmitted light renders both the ornamentation and said flocculent coating plainly visible.

The method herein described permits the making of very pleasing ornamental parchment shades of varying translucency. The variation in translucency between the flock-coated and uncoated areas of the shade, greatly accentuates the color designs in the uncoated areas and gives a brilliancy to these designs which is not attainable if the shade possesses the same translucency throughout.

Having thus described my invention, what I claim is:

1. An ornamented light-transmitting sheet of shade material having a translucent flocculent coating directly and adherently applied to a surface thereof and overlying the ornamentation of said sheet.

2. A light-transmitting sheet having designs on a surface thereof, and a flocculent translucent coating overlying said designs.

3. A light-transmitting sheet having designs on a surface thereof, and a translucent flocculent coating overlying portions only of said designs.

4. A light-transmitting body having varied designs on portions thereof, and flocculent material overlying certain of said designs only.

5. A light-transmitting body having varied designs on portions thereof, and flocculent material coinciding with certain of said designs only.

6. A light-transmitting sheet material having, adherently applied to its surface, a translucent flock coating for clouding desired areas of said sheet.

7. A light-transmitting lamp shade having translucent flock as a translucent coating.

8. A translucent lamp shade having translucent flock adherently applied to parts of its surface for varying the translucency of parts of said shade.

9. A light-transmitting lamp shade having adherently applied to its surface a translucent flock coating for reducing the translucency of certain areas of said shade and for giving to those areas a suede-like finish.

10. Light-transmitting parchment paper having an adherent translucent coating of flock.

11. Light-transmitting parchment paper having adherently applied to its surface a translucent flock coating for reducing the translucency of certain areas thereof, and for giving to those areas a suede-like finish.

12. The method of producing ornamental translucent sheets which involves superficially coating a translucent sheet with a translucent adhesive, applying flock to said adhesive while it is still in a tacky condition, allowing said adhesive to dry, and removing excessive and non-adherent portions of said flock to thereby render the retained flock thin and translucent.

13. The method of producing ornamental translucent sheets which involves superficially coating one side of selected areas of a translucent sheet with a translucent adhesive, applying flock to said adhesive while it is still in a tacky condition, allowing said adhesive to dry, and removing excessive and non-adherent portions of said flock to thereby render the retained flock thin and translucent.

14. The method of producing ornamental translucent sheets which involves superficially coating a translucent sheet bearing translucent designs, with a translucent adhesive, applying flock to said adhesive while it is still in a tacky condition, allowing said adhesive to dry, and removing excessive and non-adherent portions of said flock to thereby render the retained flock thin and translucent.

15. A light-transmitting sheet of shade material, comprising a transparent sheet of parchment paper, a dried and translucent adhesive adherently attached to said parchment paper, and a thin and translucent layer of flock adherently united to said adhesive.

EUGENE SCHWARZ.