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PAPER PRODUCT

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Fig. 1.

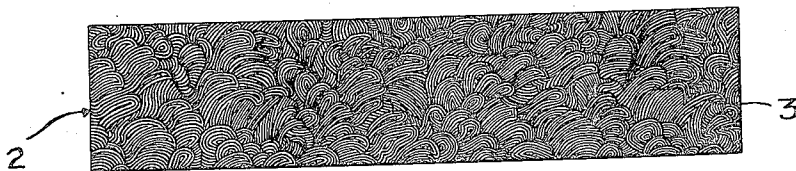
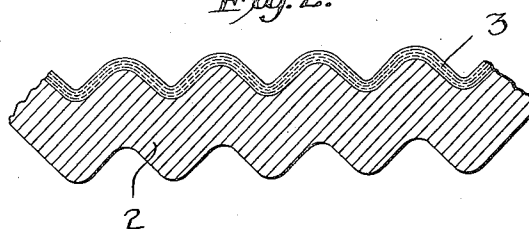


Fig. 2.



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PAPER PRODUCT

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The subject of the invention is a paper product of nacreous aspect having utility for decorative purposes, such as wall-paper, lamp shades, book and box coverings, etc., the product being of such character and structure that the nacreous appearance, due to the presence of crystalloid bodies obtained from fish-scales, is developed in a new and effective manner.

The product consists of a translucent paper having a surface of extremely high or glassy finish thrown by pressure between dies or die-rolls into a multiplicity of sloping areas or corrugations, in regular or irregular embossed designs, which surface, or surfaces, are coated with a translucent or transparent coating material containing the said crystalloid bodies. These bodies of elongated spindle shape tend to follow the contours of the smooth, prismatic or embossed surfaces, with the result that all slopes reflecting to the eye of the observer are brilliant in contrast to other areas, causing the pearly lustre to have an enhanced and changeable effect differing from that which would be presented from a flat surface. The paper texture and refraction at the upper and lower surfaces are involved in the result.

In the accompanying drawings, forming part hereof:

Fig. 1 is a plan view of a piece of paper illustrating the invention; and

Fig. 2 is a schematic sectional view on a much enlarged scale, no particular attempt being made to represent proportions.

The paper sheet 2 is preferably one which is made of a strong sulphite stock, broken down to secure the desired translucency or transparency, and the desired smoothness of surface under super-calendering or subsequent die or die-roll pressure. By the dies or die-rolls the paper is thrown into embossings which cover the surfaces with projections and recesses, with or without some flat areas, producing multitudinous sloping areas, which lie at different inclinations to a line of vision and to the angle of incidence of light rays.

One or both surfaces of such a sheet is coated with a transparent or translucent

coating composition 3 containing pearl essence, that is to say, the herein mentioned minute, transparent bodies recovered from fish-scales, such bodies having light reflecting and refracting properties, which, when the bodies are incorporated in proper proportion in a suitable medium, produce a diffraction phenomenon which is similar to that of natural pearls or mother-of-pearl.

The coating medium is preferably a cellulose lacquer, such as celluloid, cellulose nitrate, cellulose acetate, or the like, in a suitable solvent which evaporates for the most part from the coating. Other lacquers and varnishes, or casein compositions of fluid nature, may also be used. Such coating compositions are moisture- and water-proof and washable, making them suitable for wall paper, book coverings, and the like, or for coverings for contents affected by moisture. If water-proofness should not be necessary, gelatine or some other water-soluble material could be used as the coating vehicle.

The fish-scale crystalloid bodies are uniformly incorporated in the coating medium by working or kneading, and the resulting composition is applied in fluid state to one or both surfaces or the herein described embossed, glassy paper, by flowing or by spraying, but preferably by the latter method.

The effect obtained with the product herein claimed is due to the light affecting properties of the fish-scale bodies in a coating such as described, in combination with the naturally brilliant, embossed, translucent paper foundation affording formations whereby the light rays reflected from it and acting through it from one side to the other enhance both the design and the pearly appearance of the coating.

The product may be composited with suitable foundation materials, so-called parchment and the like, as in the manufacture of lamp shades.

The particular form of design embossed in the paper is no part of the invention, and a great variety of designs may be used. The coating may be tinted in any desired color by incorporating coloring material in the coating.

What I claim as new is:

1. As a new article of manufacture, a paper product for decorative uses comprising a translucent paper of highly finished surface
5 thrown by embossing into a multiplicity of sloping areas, and a translucent coating covering one or both surfaces of said paper, said coating containing the crystalloid bodies obtained from fish-scales.
- 10 2. As a new article of manufacture, a paper product for decorative uses comprising a translucent paper of highly finished surface thrown by embossing into a multiplicity of sloping areas, and a translucent
15 coating covering one or both surfaces of said paper, said coating being on the order of a water-proofed lacquer and containing the crystalloid bodies obtained from fish-scales.

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