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CELLOPHANE AND FANCY PAPER PRODUCTS AND THE LIKE

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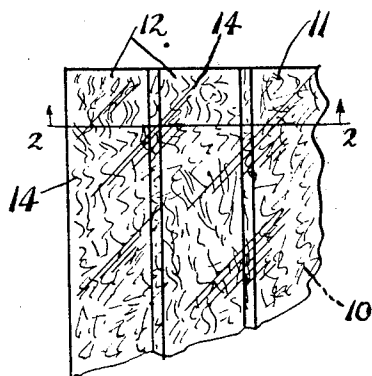


Fig. 1

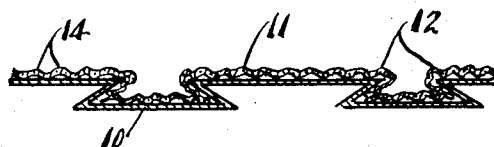


Fig. 2

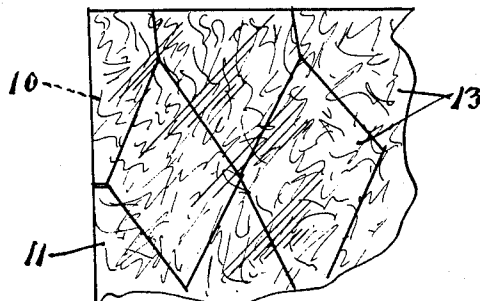


Fig. 3

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UNITED STATES PATENT OFFICE

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CELLOPHANE AND FANCY PAPER
PRODUCTS AND THE LIKEEmanuel M. Hacker, New York, N. Y., assignor of
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12 Claims. (Cl. 154—2)

This invention relates to new and useful improvements in material known generally under the trade-mark "Cellophane" and similar other materials and fancy paper products and the like.

5 The term "Cellophane" for this specification and the claims will be considered to be a generic expression and includes similar other materials.

10 The invention has for an object to increase the effect of "Cellophane" and products including a "Cellophane" covering.

More particularly the invention proposes an arrangement whereby "Cellophane" is formed with wrinkling or similar irregularities over its surface, and an arrangement whereby this effect is maintained permanently.

15 Furthermore the invention proposes the application of "Cellophane" sheets as described above, applied to paper products and other similar goods, such as covering and lining paper and fibre boxes, and various other decorative purposes.

20 The invention still further proposes a simple process for treating ordinary "Cellophane" sheets to accomplish the effect before mentioned.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawing, and to the appended claims in which the various novel features of the invention are more particularly set forth.

25 In the accompanying drawing forming a material part of this disclosure:—

Fig. 1 is a fragmentary plan view of a piece of fancy paper constructed according to this invention.

35 Fig. 2 is an enlarged sectional view taken on the line 2—2 of Fig. 1.

Fig. 3 is a fragmentary view similar to Fig. 1 but illustrating another form of the invention.

40 To obtain the "Cellophane" effect previously described sheets of "Cellophane" should be crushed, wrinkled, pebbled or similarly treated to impregnate wrinkles, etc., throughout its area, either by machine or hand, in the dry or wet state. For this specification wrinkling will be used as a generic term to include crushing, pebbling and the like. The sheets of "Cellophane" are then partially straightened out and treated with an astringent which has the power to contract or draw together organic tissues so as to concentrate the effect of the wrinkling and to make it permanent.

45 Preferably the astringent should be of a type which does not interfere with the natural gloss of the "Cellophane". A mineral salt astringent has been found best suited for the purpose. While

there are any number of astringents which may be used I prefer to use alum or aluminum-sulphate. A convenient formula for the use of either of these ingredients consists in dissolving one tablespoonful of alum in a small quantity of hot water and then adding sufficient water to make one quart. This solution should be wetted over the wrinkled "Cellophane" of commercial weight known as 300, and when it becomes dry it has the effect desired. When aluminum-sulphate is used, the solution can be prepared by using one half a tablespoonful of aluminum-sulphate and dissolving it in a small quantity of hot water and then adding sufficient water to make one quart. This solution should be applied upon the wrinkled "Cellophane", of 300 commercial weight, and when the "Cellophane" becomes dry, its crystalline effect will be highly desirable.

75 From experiments I have found that with the use of aluminum-sulphate there is a 50% larger shrinkage of a sheet of "Cellophane" than when merely wrinkled without the use of any chemical.

The invention also relates to the construction of various fancy paper products. The term paper in this specification and in the claims will be considered a generic expression to include cloth and other similar materials. The use of crepe paper in conjunction with the fancy "Cellophane" sheets forms a very attractive product. The treated "Cellophane" sheets should be placed upon or secured upon the fancy paper. If secured it should be glued in place. Then the fancy paper may be folded into various ornamental designs.

80 In Figs. 1 and 2 one particular design has been shown which comprises crepe paper 10 covered with treated "Cellophane" 11. These sheets are bent into a design as for example, one in which there are a plurality of parallel adjacent panels 12. In Fig. 3 another form of design has been shown which comprises a plurality of diamond shapes 13. Particular attention is called to the wrinkles 14 in the "Cellophane" sheet. This wrinkling effect increases the crystalline effect of the "Cellophane" and produces a very attractive product.

105 While I have illustrated and described my invention with some degree of particularity, I realize that in practice various alterations therein may be made. I therefore reserve the right and privilege of changing the form of the details of construction or otherwise altering the arrangement of the correlated parts without departing from the spirit or the scope of the appended claims.

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Having thus described my invention, what I claim as new, and desire to secure by United States Letters Patent is:—

1. Fancy "Cellophane", comprising a sheet of
5 smooth "Cellophane" minutely wrinkled over its surface, and a minute deposit of an astringent on said sheet for concentrating the said wrinkling and for better bringing out the crystalline effect of the "Cellophane".
- 10 2. Fancy "Cellophane", comprising a sheet of smooth "Cellophane" minutely wrinkled over its surface, and a minute deposit of an astringent on said sheet for concentrating the said wrinkling and for better bringing out the crystalline effect
15 of the "Cellophane", said astringent being a mineral salt.
3. Fancy "Cellophane", comprising a sheet of smooth "Cellophane" minutely wrinkled over its
20 surface, and a minute deposit of an astringent on said sheet for concentrating the said wrinkling and for better bringing out the crystalline effect of the "Cellophane", said astringent being alum.
4. Fancy "Cellophane", comprising a sheet of smooth "Cellophane" minutely wrinkled over its
25 surface, and a minute deposit of an astringent on said sheet for concentrating the said wrinkling and for better bringing out the crystalline effect of the "Cellophane", said astringent being aluminum-sulphate.
- 30 5. A process for forming fancy "Cellophane", consisting in wrinkling smooth sheets of "Cellophane", and depositing a solution of an astringent thereon for concentrating the wrinkling and better bringing out the crystalline effect of the
35 "Cellophane".
6. A process for forming fancy "Cellophane", consisting in wrinkling smooth sheets of "Cellophane", and depositing a solution of an astringent thereon for concentrating the wrinkling and
40 better bringing out the crystalline effect of the "Cellophane", said solution consisting of a solution of a mineral salt in water.
7. A process for forming fancy "Cellophane", consisting in wrinkling smooth sheets of "Cellophane", and depositing a solution of an astringent thereon for concentrating the wrinkling and better bringing out the crystalline effect of the "Cellophane", said solution consisting of alum powder in water used in the ratio of one tablespoonful of alum in one quart of water.
8. A process for forming fancy "Cellophane", consisting in wrinkling smooth sheets of "Cellophane", and depositing a solution of an astringent thereon for concentrating the wrinkling and better bringing out the crystalline effect of the "Cellophane", said solution consisting of aluminum-sulphate and water in the ratio of one half a tablespoonful : 1 quart.
9. A fancy paper product, comprising a sheet of fancy paper, and fancy "Cellophane" as described in claim 1 covering said sheet of fancy paper.
10. A fancy paper product, comprising a sheet of fancy paper, and fancy "Cellophane" as described in claim 1 covering said sheet of fancy paper, said fancy paper and "Cellophane" being secured together.
11. A fancy paper product, comprising a sheet of fancy paper, and fancy "Cellophane" as described in claim 1 covering said sheet of fancy paper, said fancy paper and "Cellophane" being secured together with glue.
12. A fancy paper product, comprising a sheet of fancy paper, and fancy "Cellophane" as described in claim 1 covering said sheet of fancy paper, said fancy paper and "Cellophane" being secured together by folding both of the sheets simultaneously into a design adapted to hold the sheets together.

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