O. L. HALPERN.

METHOD OF AND APPARATUS FOR BEADING CLOTH.

APPLICATION FILED OCT. 20, 1919.

1,433,203.

Patented Oct. 24, 1922.

3 SHEETS—SHEET 1.

Fig. 1.

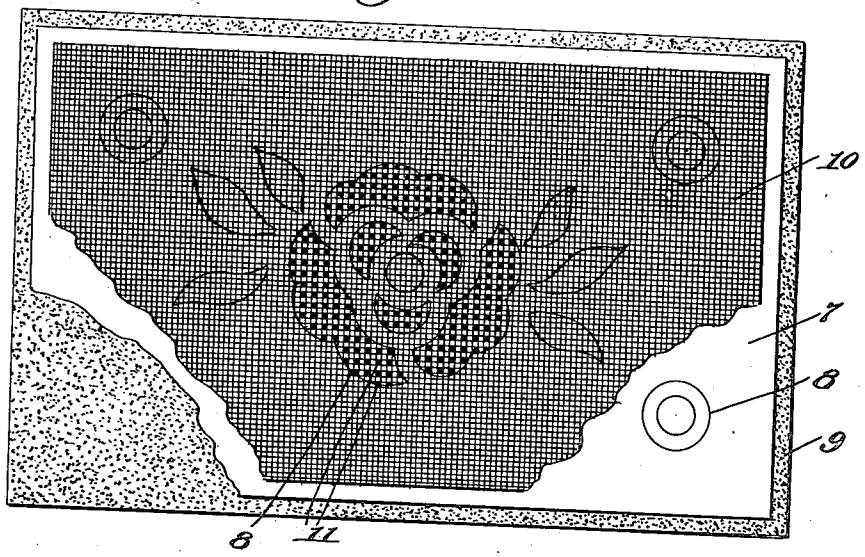
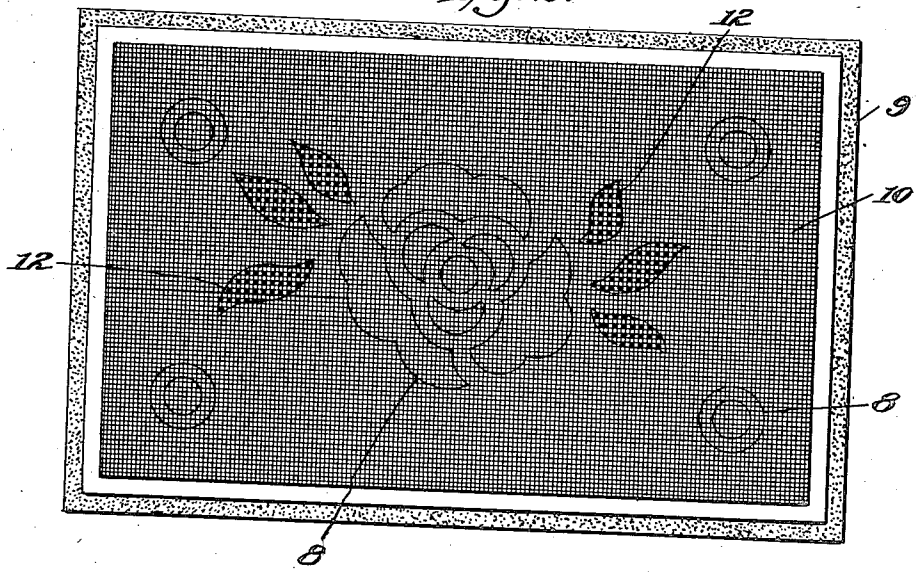


Fig. 2.



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3 SHEETS—SHEET 2.

Fig. 3.

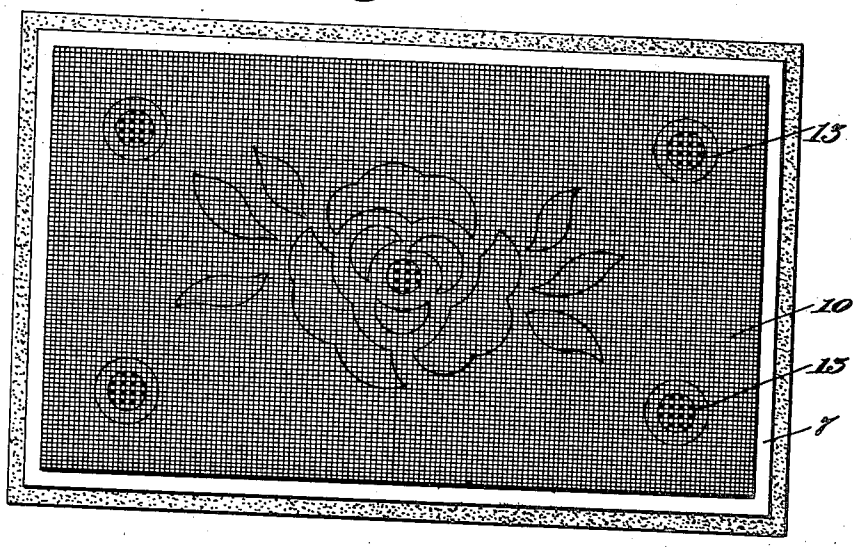
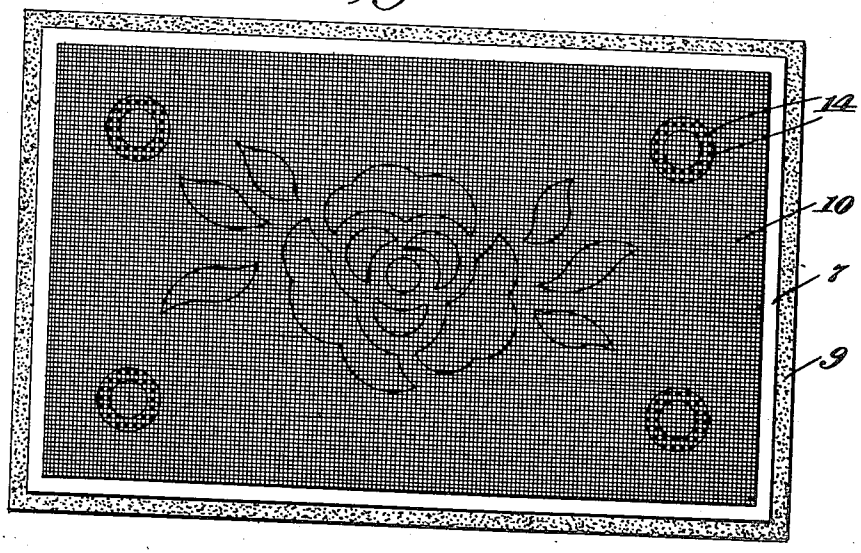


Fig. 4.



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3 SHEETS—SHEET 3.

Fig. 5.

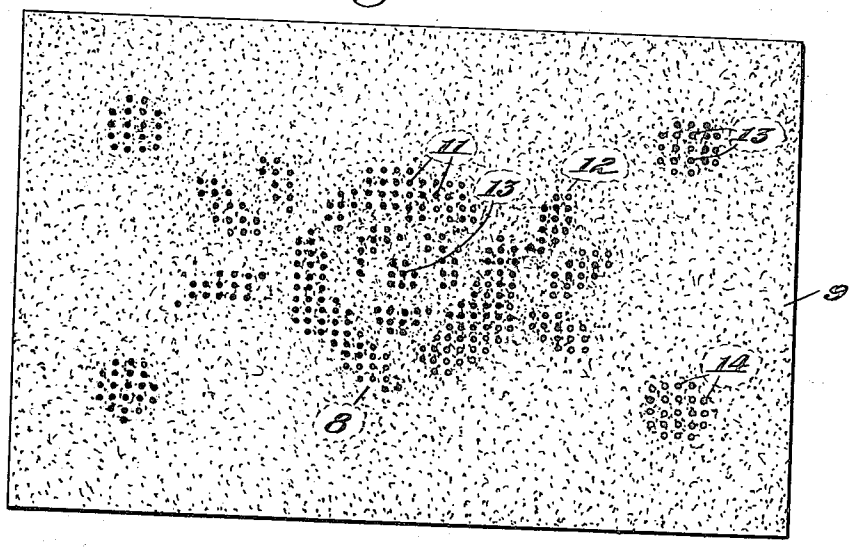
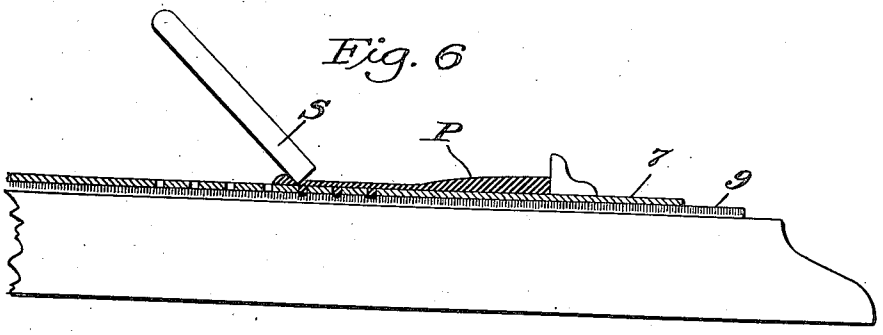


Fig. 6



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UNITED STATES PATENT OFFICE.

OSCAR L. HALPERN, OF NEW YORK, N. Y., ASSIGNOR TO DANDA-HALPERN CO., INC., OF NEW YORK, N. Y., A CORPORATION OF NEW YORK.

METHOD OF AND APPARATUS FOR BEADING CLOTH.

Application filed October 20, 1919. Serial No. 331,931.

To all whom it may concern:

Be it known that I, OSCAR L. HALPERN, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Methods of and Apparatus for Beading Cloth; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The present invention relates to a method of and apparatus for producing beaded cloth and consists in the steps of procedure, and the combinations and elements of apparatus, hereinafter described and particularly set forth in the accompanying claims.

The invention has for its purpose to produce a beaded cloth which will have all the characteristics of the genuine beaded articles now known in the fine arts and wherein the cloth thus produced will serve for all of the purposes for which the genuine article is intended, and wherein the cost of manufacture will be nominal.

The invention has for its further purpose to produce beaded cloth in multicolors and having the otherwise highly artistic effect of the real and highly priced article.

The beaded cloth produced by the manner hereinafter set forth is particularly adapted for the making of beaded bags, center pieces, table scarfs, and for decorative fabrics generally in the fine arts.

An apparatus suitable for carrying out the method to produce the beaded cloth is illustrated in the accompanying drawings wherein—

Figure 1 shows the first step in the process,

Figure 2, the second step thereof,

Figure 3, the third step,

Figure 4, the final step,

Figure 5, the finished article, and

Figure 6 shows one way of applying the beading substance to the cloth.

Referring to the construction of apparatus in further detail and wherein like reference characters designate corresponding parts in the different figures shown, 7 represents a sheet of bond paper or other suitable material having printed or otherwise shown thereon the design 8 which is to be produced on the cloth or fabric 9, and said elements may be of any dimensions and the design to be made selected at will.

A sheet of bolting cloth 10 of silk or other material overlies the figure or design 8 on the sheet 7, and the mesh of the bolting cloth will obviously be of a degree commensurate with the character of design formed on the cloth 9. A light adhesive serves as the binding medium between the design sheet 7 and bolting cloth 10 as this has been found from practice to be entirely satisfactory. It will be evident, however, that any other suitable means for holding the two sheets 7 and 10 together may be used; e. g., a binding strip securing the marginal edges of the two sheets or turning the marginal edges of sheet 7 over and against sheet 10, or vice versa.

In carrying out the process the bolting cloth 10 and paper 7 are perforated by a needle immediately over the lines of the design 8 and said perforations are preferably spaced at equal distances which may be easily selected by reason of the well defined squares or coordinate effect of the bolting cloth.

The multiplicity of apertures thus made through the design on the pattern or design sheet 7 are adapted to permit the paint P, or other beading substance, to percolate or pass through and deposit in the form of individual and separate drops or beads on the cloth as indicated in Figure 5. The beading substance is preferably spread over the bolting cloth 10 in the form of a relatively thin film or layer and by means of a spreader *s* is forced with slight pressure through the several openings and is thence affixed in the form of separate drops or beads as described.

The foregoing operation is suitable for carrying out the process where the beaded design is of a single color but where it is desired to produce the beaded effect in a number of colors the steps of procedure are substantially as follows.

The design sheet 7 is perforated in selective sections 11 of a given color and said sheet is then transferred on to the pile fabric 9 whence the separate drops or beads are formed of this one color as in the manner stated. A second sheet 7, having the same design as the first sheet, is thence perforated at different sections such as 12 and said second sheet is then placed in proper position on

the fabric and the beading substance applied as in the former instance. A third sheet 7, having the identical design as the first and second sheets, is then perforated at still other sections as at 13 for another color and this sheet is also placed over the fabric and the proper color of beading substance applied in the manner explained. Character 14 in Figure 4 shows the application of a fourth color.

It will therefore be seen from the foregoing that a pile cloth may be beaded with any design by individual and separate beads or drops and with any number of colors by the application of the method just described. That is, there would be a separate perforated sheet for each color to be produced and such sheet would be separately applied to the cloth for treatment and this operation repeated until all of the sheets were used to complete the design. The sections for the several colors are, of course, separately perforated from the original design with the aid of the bolting cloth 10 as explained.

It will be obvious, of course, that different forms of construction may be provided in lieu of that disclosed and described herein. And while I have shown and described certain apparatus for accomplishing the result initially stated it is to be understood that I am not limited to the precise details shown but may on the other hand adopt such modifications or changes within the scope of the claims to better suit the end in view.

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

1. The method of producing multi-colored beaded cloth which consists in first spreading a film of one color of the beading substance over and above the cloth surface, causing said beading substance to deposit on the cloth in individual and separate drops or beads, and repeating this operation at appreciable intervals with each color of the beading substance to be applied, substantially as set forth.

2. The method of producing beaded cloth which consists in spreading a paint over a surface above the cloth having the design to be copied, and causing said substance to percolate through the designed outline, and deposit on the cloth in the form of individual and separate drops or beads, substantially as set forth.

In testimony whereof I affix my signature.

OSCAR L. HALPERN.