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METHOD OF ORNAMENTING TEXTILES

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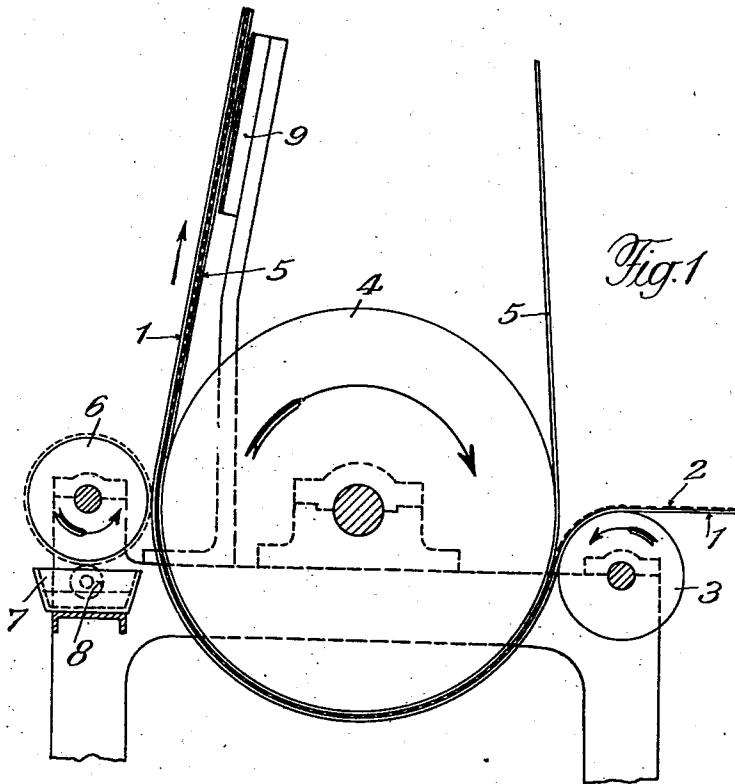


Fig. 1

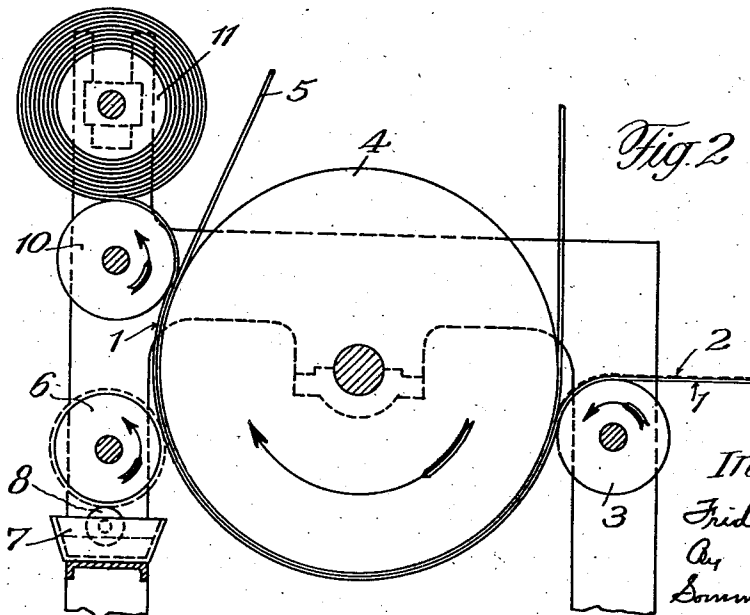


Fig. 2

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UNITED STATES PATENT OFFICE

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METHOD OF ORNAMENTING TEXTILES

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1 Claim. (Cl. 41—36)

This invention relates to methods of fixing fibrous material or other suitable substances on textiles.

According to the invention, the method of producing novel patterning effects on textiles as fabrics, knitted ware or warps by fixing fibrous materials or other suitable ornamenting substances, such as powdered metal, pigments, metal flakes or the like is performed by applying the ornamenting substance to be deposited in a discontinuous or contiguous layer to one face of the textile goods and pressing the ornamenting substance thereon, whereupon the goods is printed on its back face, in conformity with the pattern to be produced, with an adhesive such as glue, lacquer, artificial resin solution, albumin etc., the printing being preferably effected by means of a correspondingly engraved printing roller, so that the pressed layer of ornamenting substance positioned between the goods and a supporting web commingles with the adhesive at the printed portions and, being pressed, takes up the adhesive in the exact pattern, and retains it on subsequent drying. Thereupon, the surplus coherent ornamenting material is removed mechanically, for example, by brushing, suction, combing or the like.

The apparatus according to the invention for carrying out the method described comprises a guide roller which passes the textile goods together with the ornamenting material pressed thereon by a pressure roller to a printing roller which applies the fixing agent to the back of the fabric in conformity with the pattern to be produced.

In the accompanying drawing two constructional forms of the device for carrying out the method according to the invention are illustrated by way of example only, like numerals denoting like parts.

The web of textile goods to be patterned is designated by numeral 1, and the ornamenting material 2 to be applied is pressed on and cohered to the textile between a pressure roller 3 and an endless supporting web 5 which is slung about a roller 4. The textile in passing around

roller 4 is contacted on its back face by an engraved printing roller 6 which prints the back face with the adhesive agent at the portions to be patterned by deposits of the ornamenting material, the adhesive agent being supplied from out of a container 7 by means of supply rollers 8.

In Fig. 1, 9 designates a device for drying the adhesive agent for fixing the ornamenting material permanently on the goods, and after its passage by the drying device the web of fabric is passed to an appurtenance, not shown, in which the surplus ornamenting means, which does not adhere, is removed by mechanical means.

Fig. 2 shows a variant construction of the device shown in Fig. 1 differing from the latter in so far as the drying device is omitted and the goods is wound immediately after being printed on a roller 11 after passing around guide roller 10, thus in a tight coil, in which way part of the deposited ornamenting means is transferred to the back face of the textile goods which thus will have the ornamenting means sticking to both of its faces. The fabric thus prepared is then unwound and dried and the surplus material can also in this case be removed in the manner described above.

I claim:

A method of ornamenting textiles, comprising the steps of applying loose ornamenting material to a face of a web of textile in a substantially contiguous layer, printing said textile with an adhesive for said material on the back face of said textile in conformity with the pattern to be produced by deposits of said material on the front face thereof, winding said textile immediately after the printing operation in a tight coil thereby transferring part of said deposited material to the back face of said textile, drying the adhesive to permanently fix said ornamenting material in position on said textile on both faces thereof, and mechanically removing the surplus ornamenting material from both faces of said textile at the portions thereof where it is not adhered thereto.

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