

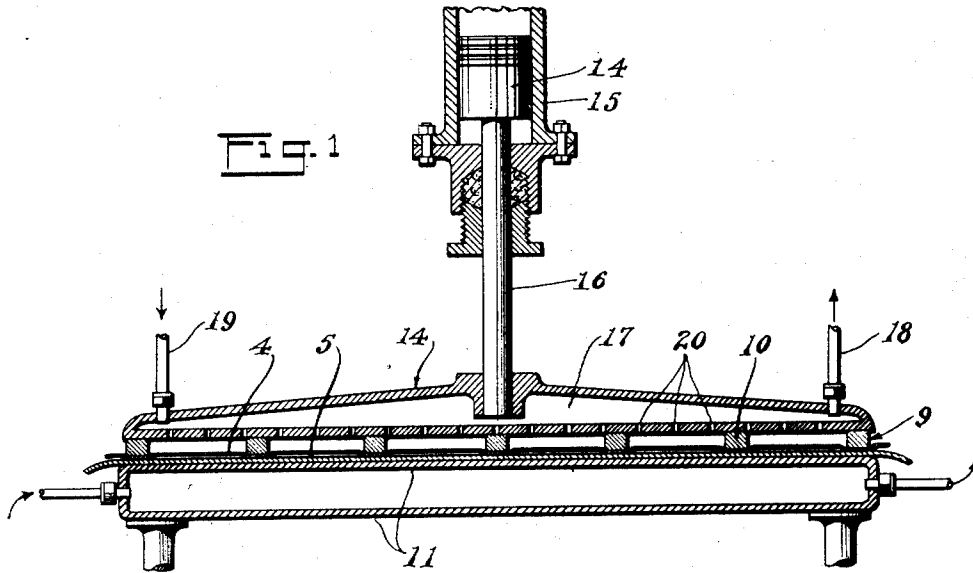
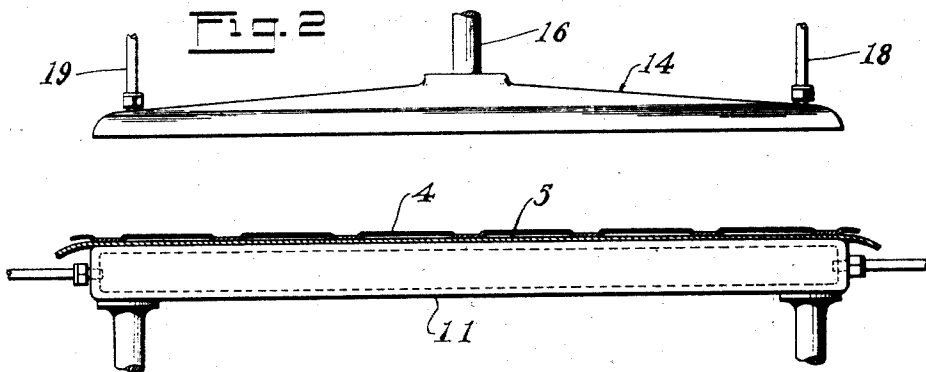
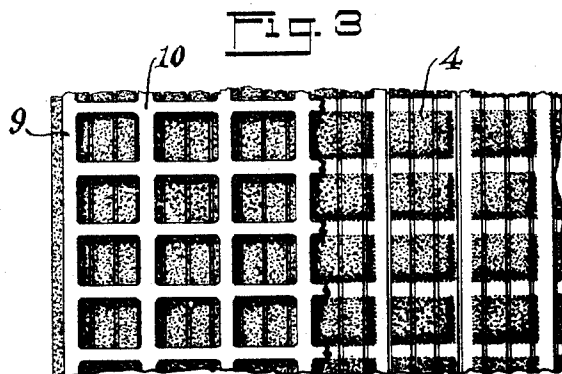
Jan. 15, 1929.

1,699,288

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METHOD OF EMBOSSED PLAITING AND THE LIKE

Original Filed June 17, 1925



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METHOD OF EMBOSSING PLAITING AND THE LIKE.

Original application filed June 17, 1925, Serial No. 37,674. Divided and this application filed March 15, 1927. Serial No. 175,483.

This invention relates to a new and improved method of embossing, more particularly to a new and improved method of embossing plaited or shirred textile material.

5 One of the objects of the invention is to provide a new and improved method of embossing which eliminates the use of specially designed rollers or plates, that is to say, rollers or plates in which the design of the
10 embossing to be formed in the material to be treated is cut or otherwise formed upon a metallic surface.

Another object of the invention is to provide a new and improved process of embossing plaited or shirred material whereby the surface of the depressed portions of the fabric do not take on a whitened or shiny effect usually present in embossed fabrics of this character.

20 This application is a division of my application Serial No. 37,674, June 17th, 1925.

Other objects and aims of the invention more or less specific than those referred to above, will be in part obvious and in part pointed out in the course of the following description of the steps and the relation of each step to one or more of the others thereof employed in carrying out my method, and the scope of protection contemplated will
25 be indicated in the appended claims.

In the accompanying drawings wherein I have illustrated a preferred form of embodiment of my invention;

35 Figure 1 is a vertical sectional view showing a preferred form of embodiment of my improved method;

Figure 2 is an elevational view showing an edge view of the fabric after my improved method has been carried out; and

40 Figure 3 is an elevational view, partly broken away, showing a form of pattern which may be used in carrying out my improved method.

Referring now to the drawing wherein
45 similar reference characters refer to several parts in the several views thereof, the reference numeral 11 indicates a table or hollow block, said table being heated by any suitable means, such as steam, as indicated,
50 or by electric or gas appliances. Reference numeral 14 denotes a head or platen which may be projected downwardly against the block by any suitable means, such for instance, as by means of the piston rod 16.
55 This head is preferably formed with an in-

ner chamber 17 through which steam may be discharged by either of the conduits 18 or 19. The face or pressure plate of the head is preferably provided with a plurality of apertures 20 through which steam
60 may be projected directly upon the material being treated.

The reference numeral 9 denotes a pattern or form comprising a strip of relatively stiff material into which has been cut the design that it is desired to emboss upon the plaiting. In the present instance, this pattern is shown to be formed with a plurality of rectangular openings with webs 10 separating the openings. Strip 9 is preferably formed of material such as fibre,
70 although other relatively stiff, tough material may be employed in this relation. It could be formed of sheet metal. The design shown in Figure 3 of the drawings, is, of
75 course, purely conventional, and for this design on this pattern may be substituted any design which it is desired to have impressed upon the plaited or shirred material.

In carrying out this embodiment of my
80 method, a strip of soft textile material, such as felt or flannel 5 is preferably first placed upon the table 11 and the plaited material 4 to be treated then laid upon the fabric. The pattern 9 is then laid upon the plaited material. The head is then moved downwardly whereupon the pattern presses its design upon the plaited material, the flannel cushion serving to force the plaited material upwardly into the openings of the pattern.
85 During this operation, steam may be projected upon the fabric being treated through either the table or the head or both.

This operation will cause the webs 10 of the form or pattern to press those portions of the plaited material directly beneath them downwardly into the plaited material, thereby depressing such portions of the felt or flannel cushion as are located directly beneath the webs of the pattern.
90 This will cause such parts of the plaited material bounded by the webs 10, to move upwardly into the apertures of the pattern, whereby the plaited material will taken on the form of the pattern. The moisture projected on to the plaited material, of course, aids in setting the fabric into the design impressed thereon.

It will accordingly be seen that I have provided a method well adapted among oth-
110

ers, to attain all of the objects above stated, in an exceedingly simple and efficient manner.

As many changes could be made in this construction without departing from the scope of the following claims, it is intended that all matter contained in the above description or shown in the accompanying drawing shall be interpreted as illustrative only and not in a limiting sense.

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

1. The herein described method of embossing plaited material, which includes arranging in superimposed relation, plaited material, a padding strip, a pattern strip, the latter comprising a flat sheet of hard material in which the design to be embossed has been cut, and the plaited material to be treated being interposed between the padding strip and the pattern strip, and then subjecting said superimposed materials to heat and pressure in a single operation.

2. The herein described method of embossing plaited material, which includes arranging in superimposed relation, plaited material, a padding strip, a pattern strip, the latter comprising a flat sheet of fibre or like relatively hard material in which the design to be embossed has been cut, and the

plaited material to be treated being interposed between the padding strip and the pattern strip, and then subjecting said superimposed materials to heat and pressure in a single operation.

3. The herein described method of embossing plaited material, which includes arranging in superimposed relation, plaited material, a padding strip, a pattern strip, in which the design to be embossed has been cut, and the plaited material to be treated being interposed between the padding strip and the pattern strip, and then subjecting said superimposed material to heat and pressure, and the treated material to moisture, in a single operation.

4. The herein described method of embossing plaited material, which includes arranging in superimposed relation, plaited material, a padding strip, a pattern strip, the latter comprising a flat sheet of fibre or like relatively hard material in which the design to be embossed has been cut, and the plaited material to be treated being interposed between the padding strip and the pattern strip, and then subjecting the superimposed material to heat and pressure, and the treated material to moisture, in a single operation.

In testimony whereof, I affix my signature.
HARRY FRISCHER.