

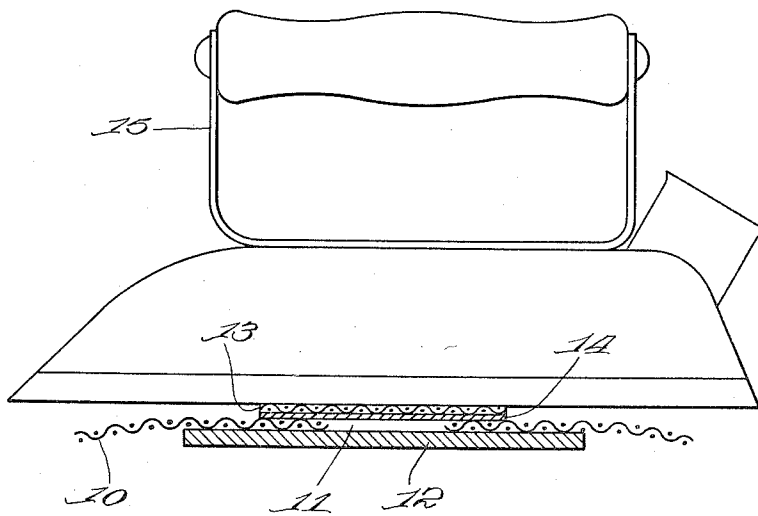
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PATCHING MATERIAL

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PATCHING MATERIAL

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1 Claim. (Cl. 2-243)

This invention relates to a patch for fabric and particularly for textile fabrics, and more particularly to a method of overcoming a tackiness in the adhesive of the patch after application thereof.

5 In my co-pending application, Serial No. 725,-593, is described a patching material comprising preferably a textile fabric having on one side thereof a layer of thermoplastic material. When such a patch is applied to a hole in a fabric and heat is applied to melt the thermoplastic material and cement the patch, there is a tendency in practically all thermoplastic materials of the ordinary type, particularly those containing rubber, to retain some tackiness following the operation. This is particularly true where the material comes in contact with the body and is subjected to body temperature and perspiration.

It has now been discovered that this tackiness may readily be overcome, either with thermoplastic material as described, or with adhesive material of a tacky type, by applying loose cellulosic fibres, preferably short fibres, to the exposed area of the tacking material. The preferred cellulosic material is blotting paper of the ordinary type. Thus, in preparing a patch, the patching fabric is laid over the material to be patched, with the adhesive material adjacent thereto, the material to be patched having been placed over a blotter lying face up. An iron or other source of heat or pressure may then be applied to the patching fabric and upon removal of the iron the patch will be complete, and the exposed tacky material will have contacted the blotter and picked up sufficient fibres to avoid further tackiness.

35 The amount of cellulosic material picked up by the thermoplastic adhesive is generally small, and while much of it washes out in the first washing, the washing itself removes the tackiness so that the temporary nature of the filler does not interfere with its value. The blotting material may, of course, be applied after the patch has been made as the order of steps described is not at all material.

40 The invention is illustrated in the drawing, in which the figure illustrates a vertical section showing a stocking 10 having a hole 11 superposed upon a strip of blotting paper 12. Patching material 13 is placed over the hole 11 with its thermoplastic material 14 on the bottom, and in this position is pressed by the iron 15.

As an example of the invention, a ribbed fabric, preferably a fabric elastic in one direction and substantially inelastic in the other, is impregnated on one side with a thermoplastic adhesive prepared according to the following formula:

Parts by weight	
Rubber	100
Sulphur	4
Zinc oxide	5
Zinc stearate	1
Mercaptobenzothiazole	1
Benzol	1000

The solvents are then evaporated and a stiff backing is applied to the material for wrapping purposes. In the above formula, other agents such as diorthotolylguanidine may be substituted for the mercaptobenzothiazole.

In applying this material to a patch, the backing is removed, the fabric to be patched is laid over a piece of blotting material and the patch laid face up over the fabric. An iron may then be applied for a moment, after which the patch is complete, and the thermoplastic material is not tacky to the touch.

The backing preferably comprises a cloth such as Holland cloth impregnated with a smooth drying binder such as a phenol formaldehyde resin of the "Bakelite" type.

The foregoing detailed description has been given for clearness and understanding only and no unnecessary limitation should be understood therefrom, but the appended claim should be construed as broadly as permissible in view of the prior art.

What I claim as new, and desire to secure by Letters Patent, is:

40 In the patching of fabric with a fabric patch containing a tacky adhesive, the steps of applying the patch to the fabric, and pressing the patch onto the fabric while resting upon blotting paper covering the opening in the material being patched, whereby the adhesive which would otherwise be exposed contacts the blotting paper and is rendered non-tacky thereby.

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