

# ALIEN PROPERTY CUSTODIAN

## FABRIC-SIMULATING MATERIAL

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My invention relates to a material simulating fabric or such like woven textiles, but which material has been manufactured from stockinet or tricot or such like knitted goods or knit-wear in general. My invention relates also to a process of producing such fabric simulating material, and to garments made therefrom.

One object of my invention is to produce a material simulating fabrics or such like woven textiles from tricot or knit-wear, thus obtaining materials which have a certain degree of elasticity and being suitable for being used in the clothing-industry.

The material according to my invention has the appearance of woven textiles, and especially that of cloth, and is easily workable. Garments made from the material according to my invention fit very well and are very comfortable in wearing.

According to my invention tricot or stockinet or such like knitted materials or knit-wear are fullled and then stretched and are further subjected to known treatments. The fulling-operation may be applied to the tricot or knitted material in the well known tubular form after which the material is washed and cut in the length of the tube and afterwards stretched.

I prefer to full in such a way that the length and/or the width is decreased more than 20%, e. g. 40-50%, and thereupon the stretching is carried out.

A further advantage of my invention is that the danger of tearing is much less than with ordinary woven textiles, as the material according to my invention does not possess warp and weft.

In my specification and claims the words "tricot", "stockinet", "materials of the tricot-class", "knitted goods" and "knit-wear" are intended to cover the materials produced by means of circular knitting machines, circular knitting-machines with spring needles, or with beard needles, warp knitting looms, flat knitting machines, the Maratti-machine and such like machines or looms.

In order to elucidate my invention the following example is given, which is not intended to limit the scope of protection.

Tricot or such like knitted material in tubular shape is fullled in a fulling-trough or fulling-machine, e. g. by means of a solution of Marselles-

soap, at 25° C during 1 or 2 hours. The duration and the other conditions of the fuller-reaction are controlled in connection with the degree of fullness required. The addition of the soap solution is carried out preferably during the material is running in the machine.

The rims of the piece are stitched together as usual and the piece is applied onto the reel. As soon as the piece is moist throughout it is allowed to run in the machine for another period of about 1 to 2 hours. The length of the piece has now been diminished by 40 till 50% and the width by 25% or more. Thereupon the piece is washed with lukewarm water (25-30° C.) till the soap solution has been removed well. Finally the material is centrifuged till air-dry, laid down flat or rolled up and cut lengthwise.

The material treated as described is tightened and dried. After being stretched to the desired degree, the material is sheared once or several times till it is sufficiently smooth. Thereupon it is decatated, e. g. with steam. The temperature is regulated in accordance with the desired properties of the material. The material can be made free of shrinkage and pressed. If desired the material is subjected to roughening in order to obtain a so-called "loden" appearance.

By applying the process according to my invention to tricot obtained by means of the Maratti-machine, i. e. to tricot in a tubular shape with a circumference of e. g. 176 cm the shrinkage is carried out till about 125-130 cm. Stretching is carried out in such a way that the final circumference is about 135-140 cm.

It is possible to stretch further dependent on the degree of fulling. Strong stretching, however, will diminish the "fabric-effect" and also the thickness of the final product.

I prefer to dry the material when in a stretched condition, which is the best technical method. However, this is not necessary and very sensible materials should be stretched first, then dried in a loose condition, after which it is stretched again, e. g. on rollers.

The material obtained according to my invention is very suitable for making garments for gentlemen, ladies and children, these garments combining the favourable properties of tricot with the appearance of woven textiles.

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