

T. Demuth,
Fabric

No. 113274.

Patented April 4, 1871.



Witnesses:
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THEODORE DEMUTH, OF DANBURY, CONNECTICUT.

Letters Patent No. 113,274, dated April 4, 1871.

IMPROVEMENT IN FELTED FABRICS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, THEODORE DEMUTH, of Danbury, in the county of Fairfield and State of Connecticut, have invented a new and useful Improvement in the Manufacture of Mixed Felted Fabrics; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

This invention relates to improvements in the manufacture of felted fabrics with mixed colors.

The nature of the invention consists in the preparation of woolen or cotton yarn of different colors, to be applied to the wool in process of manufacture, for imparting the mixed character, by a solution of gum shellac or other suitable resinous or glutinous substance, for the purpose of keeping the same intact and distinct, and preventing the assimilation and entanglement of its fibers with those of the wool with which it is mixed in the processes of carding and fulling, thereby producing a new and distinct mixed felted fabric which cannot be obtained with the same materials without such preparation of the yarn.

The drawing represents a hat made of the improved mixed felted fabric of my invention.

The process of manufacture is as follows:

The wool, of desired color for the ground color, is carded upon a breaker, and then mixed, by means of a picker, with the proper quantity of yarn, which has previously been cut in such length as may be desired,

soaked in a solution of shellac or similar substance, and dried.

The quantity and color of the yarn to be used are determined by the result intended to be obtained.

This mixture, by means of the finishing-cards, which are so adjusted as to produce the least possible tearing or disintegration of the pieces of yarn, is then carded into a web, which may be formed and felted into cloth, hat-bodies, or other felted articles, in the usual manner.

The yarn may also be mixed with the wool without the assistance of the picker, by spreading or sprinkling it upon the bat as it is being fed upon the finishing-cards.

By this means the different colors of the fabric are much more marked and distinct than they would be if the yarn was not gummed.

Having thus described my invention,

I claim as new and desire to secure by Letters Patent—

An improvement in the process of manufacturing mixed felted fabrics, by applying an adhesive liquid to each different-colored yarn, and drying the same thereon before the intermixture of wool therewith, for the purpose of preventing the colored fibers from becoming entangled with the wool, and to preserve the individuality of the several colors.

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Witnesses:

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