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SPINNING PROCESS

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2 Claims. (Cl. 19—65)

This invention relates to a process of making yarn out of sheep's wool and substitutes therefor of medium length and over, and its object is to produce, at less than the usual cost, worsted and like yarn either of large or high count.

The lowering of the cost of production is obtained principally by reducing the number of operating steps, this being done without lowering the quality of the goods.

For the purpose of the invention, the usual intermediate sliver product is first obtained by carding the loose material and by doubling, stretching and combing the bands thus obtained.

The slivers are then subjected to further doubling and to simultaneous repeated stretching without any treatment resembling heckling. By the elimination of the heckling action during the stretching process, the number of operations can be reduced. This is due to the fact that the fibres will be saved from the unnecessary tensional stress to which they are usually exposed by the faller pins and that therefore a more rapid fibre movement and a quicker attenuation of the slivers will be obtained during the stretching or drawing process.

This operation is, unlike known processes of wool preparing, repeated only about three times whereupon the thus repeatedly doubled and highly drawn intermediate slubbing requires, owing to its fineness and uniformity, only about 2 or 3 stretching and twisting operations, the last operation constituting the spinning proper.

These operations, in the order described, suffice for bringing about the advantages aimed at, but a repetition of one or more of the intermediate operations may take place without affecting the spirit of the invention.

I claim:

1. A process of producing worsted yarn from a mixture of long and medium-stapled sheep's wool, consisting in carding the wool, doubling and stretching the resulting slivers, combing the slivers, subjecting the product thus obtained to three stretching operations by passing it from one set of stretching rollers immediately into another set without heckling or gilling, subjecting the slubbing thus obtained to about two stretching and twisting operations, and finally to a fine spinning operation.

2. A process of producing worsted yarn from a mixture of long and medium-stapled sheep's wool, consisting in carding the wool, doubling and stretching the resulting slivers, combing the slivers, subjecting the products thus obtained to about three stretching operations by passing it from one set of stretching rollers immediately into another set without heckling, subjecting the slubbing thus obtained to three stretching and twisting operations, and finally to a fine spinning operation.

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