

Title (en)
SPINNING MACHINE AND CONVERSION PROCESS

Title (de)
SPINNMASCHINE UND VERFAHREN ZUR UMWANDLUNG

Title (fr)
MACHINE A FILER ET PROCEDE DE CONVERSION ASSOCIE

Publication
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Application
EP 97951492 A 19971125

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• US 9721903 W 19971125

Abstract (en)
[origin: GB2319745A] A process for making a first and a second plurality of fully oriented multifilament yarns on a fully oriented yarn spinning machine comprises spinning a plurality of filaments from a spin pack 32 containing a spinneret plate; cooling the filaments in a quench chimney 25 applying finish 20 on the filaments and converging the filaments into a first and a second plurality of multifilament yarns; and drawing the first plurality of the multifilament yarns with a first stepped roll assembly 90 and drawing the second plurality of the multifilament yarns with a second stepped roll assembly 90 to increase their length by a fixed amount. The multifilament yarns from the unheated rotatable stepped feed and draw roll assemblies are heated by applying steam to the multifilament yarns from a steam relax unit (not shown) between the first and the second unheated rotatable stepped feed and draw roll assemblies 90; the separation is maintained and the multifilament yarns are directed; and the first and the second plurality of the multifilament yarns are wound on a first and a second windup assembly 70 into a first and a second plurality of packages. The invention includes apparatus for carrying out this process wherein a partially oriented yarn spinning machine is converted to a fully oriented yarn spinning machine.

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