

Title (en)
SPOOL, YARN TWISTING PROCESS AND YARN TWISTING MACHINE

Title (de)
SPULE, GARNZWIRNVERFAHREN UND GARNZWIRNMASCHINE

Title (fr)
BOBINE, PROCÉDÉ DE RETORDAGE DE FIL ET MACHINE DE RETORDAGE DE FIL

Publication
EP 4283028 A1 20231129 (EN)

Application
EP 21920896 A 20211217

Priority
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Abstract (en)
A spool of yarn of natural, synthetic or artificial textile fibres, with the torsion value of the plied yarn (α) throughout the spool (1) being variable, and being associated with the instantaneous winding/unwinding diameter (DI) of the spool (1), equal to $\alpha \text{ (tpm)} = 1 / (\text{DI} * \pi)$ such that, on unwinding the yarn as twisted in a first direction N-S, the torsion value of the yarn, once unwound as twisted (β) is constant throughout the spool and is essentially equivalent to 0 tpm, and such that, on unwinding the yarn as twisted in a second direction S-N, opposite to the first direction, the torsion value of the yarn, once unwound as twisted (β), is variable throughout the spool and is equivalent to $\beta' \text{ (tpm)} = 2 / (\text{DI} * \pi)$. Process for the generation of the spool disclosed, and yarn twisting machine for the generation of the spool disclosed.

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