

Title (en)

METHOD AND ENTANGLEMENT NOZZLE FOR PRODUCING KNOTTED YARN

Title (de)

VERFAHREN UND VERWIRBELUNGSDÜSE FÜR DIE HERSTELLUNG VON KNOTENGARN

Title (fr)

PROCEDE ET BUSE DE TOURBILLONNEMENT POUR LA PRODUCTION DE FIL NOUEUX

Publication

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Application

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Abstract (en)

[origin: WO2006099763A1] The invention relates to an entanglement nozzle and to a method for producing fine knotted yarn with highly regular knots by means of air jets comprising a yarn treatment channel. According to said method, air is blown transversally to the yarn treatment channel. Said blown air forms a respective double swirl both in the yarn transport direction and against the yarn transport direction for creating the knots. According to the invention, upon entry into the yarn treatment channel, the blown air is converted into two intense, stationary eddy currents that are not disrupted by filament bundles, in an air swirling chamber that only extends for a short distance in the longitudinal direction of the yarn channel. The regularity of the knots can be significantly improved, despite the tiny dimensions of the air swirling chamber, which projects beyond the longitudinal wall of the yarn channel for a maximum 0.5 mm or for 5 % to 22 % of the width (B) of said channel. It is also possible to create hard or soft knots that can be subsequently undone.

IPC 8 full level

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CPC (source: EP KR US)

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