

Title (en)

Method and apparatus for spinning stable textile fibres using Spinnrotors

Title (de)

Verfahren und Vorrichtung zum Verspinnen textiler Stapelfasern mittels eines Spinnrotors

Title (fr)

Procédé et dispositif pour la filature des fibres par un rotor de filage

Publication

EP 1318219 A3 20030813 (DE)

Application

EP 02025456 A 20021115

Priority

DE 10160067 A 20011206

Abstract (en)

[origin: EP1318219A2] In a spinning process fibre runs at high-speed through a rotor housing maintained at low pressure and closed by a cap. The incoming staple fibres collect within the rotor groove, combine and twist in the binding-in-zone, and discharge as a yarn section (44) extending between the rotor groove and thread withdrawal jet. The yarn section is subject esp. to a pneumatic force (F) opposite to its direction of rotation (U). <??>The curved yarn section (44) is exposed to numerous surrounding array of tangential incoming air jets applying a twist force at an angle of between 10 and 30 to the yarn section (44). The yarn section (44) rotates at a distance of 0.5 to 1.5 mm from the surrounding air jets. Also claimed is a commensurate open-end spinning assembly.

IPC 1-7

D01H 4/40

IPC 8 full level

D01H 4/08 (2006.01); **D01H 4/40** (2006.01)

CPC (source: EP)

D01H 4/40 (2013.01)

Citation (search report)

- [A] US 3844100 A 19741029 - CROASDALE F, et al
- [DA] AT 268942 B 19690225 - VYZK USTAV BAVLNARSKY [CS]

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DE10339875A1

Designated contracting state (EPC)

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EP 1318219 A2 20030611; EP 1318219 A3 20030813; CN 1422998 A 20030611; CZ 20023685 A3 20030917; DE 10160067 A1 20030618

DOCDB simple family (application)

EP 02025456 A 20021115; CN 02154044 A 20021206; CZ 20023685 A 20021107; DE 10160067 A 20011206