

Title (en)  
SPINNING METHOD

Title (de)  
SPINNVERFAHREN

Title (fr)  
PROCÉDÉ DE FILAGE

Publication  
**EP 2171138 A2 20100407 (DE)**

Application  
**EP 08784791 A 20080716**

Priority  
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Abstract (en)  
[origin: WO2009012916A2] A method is proposed for spinning a multifilament yarn from a thermoplastic material comprising the following steps, in which the melted material is extruded through a spinneret to form a filament bundle having a large amount of filaments and is wound up as a multifilament yarn after solidifying, wherein the spinneret has a multiplicity of nozzle holes, and the ends of the holes, at which the filaments emerge, form a nozzle-hole outlet plane, and wherein the filament bundle is cooled below the spinneret in a first cooling zone, first of all by means of at least one transverse blowing operation with a gaseous cooling medium and by means of an extraction means for the gaseous cooling medium which lies opposite said transverse blowing means, and subsequently the filament bundle is cooled further in a second cooling zone below the first cooling zone by automatic suction of gaseous cooling medium which is situated in the vicinity of the filament bundle, characterized in that, in the first cooling zone, the at least one transverse blowing operation of the gaseous cooling medium over a blowing section AC of length L is effected, wherein the blowing section AC has an upper start A which faces the nozzle holes and a lower end C which faces away from the nozzle holes, and a section BD is arranged opposite the blowing section AC, which section BD has a start B which faces the nozzle holes and an end D which faces away from the nozzle holes, and the imaginary section AB between A and B extends parallel to the nozzle-hole outlet plane, wherein the section BD is of length L, and wherein the section BD is divided into an open extraction section BX of length LBX, over which the gaseous cooling medium is extracted, and into a closed section XD of length LXD, wherein the ratio LBX : LXD lies in the range from 0.15 : 1 to 0.5 : 1.

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CPC (source: EP US)  
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