

Title (en)

FILAMENT PRODUCTION METHOD AND APPARATUS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG VON FILAMENTEN

Title (fr)

APPAREIL ET PROCEDE DE PRODUCTION DE FILAMENTS

Publication

EP 1313899 A1 20030528 (EN)

Application

EP 00949790 A 20000803

Priority

- GB 0002998 W 20000803
- GB 9918376 A 19990805

Abstract (en)

[origin: WO0111119A1] A method of making spun bonded fabrics from filaments of polymeric material is disclosed. Conventionally, spun bonded fabrics are made by extruding a polymer in molten form out of apertures in a spinneret plate to produce filaments, drawing these filaments away from the spinneret plate, blowing a flow of cooling air transverse to the filaments as they are drawn away from the spinneret, depositing the filaments as they emerge from the drawing device on a conveyor to form a mat of the filaments, and effecting treatment on the mat to connect the individual filaments together to form a fabric. In the inventive method, the filaments are drawn at a speed of greater than 400 metres per minute away from the spinneret, the apertures in the spinneret are approximately C-shaped so that the cross sectional shape of the extruded filaments is approximately C-shaped, and the cooling air flow is directed towards the open mouth of the C shape of the filament cross section.

IPC 1-7

D01D 5/23; **D01D 5/253**; **D01D 5/098**; **D04H 3/00**

IPC 8 full level

D01D 5/098 (2006.01); **D01D 5/23** (2006.01); **D01D 5/253** (2006.01); **D04H 3/105** (2012.01); **D04H 3/16** (2006.01)

CPC (source: EP)

D01D 5/0985 (2013.01); **D01D 5/23** (2013.01); **D01D 5/253** (2013.01); **D04H 3/105** (2013.01); **D04H 3/16** (2013.01)

Citation (search report)

See references of WO 0111119A1

Cited by

CN104652017A; CN112359432A

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 0111119 A1 20010215; AT E325208 T1 20060615; AU 6305800 A 20010305; DE 60027790 D1 20060608; EP 1313899 A1 20030528; EP 1313899 B1 20060503; GB 9918376 D0 19991006

DOCDB simple family (application)

GB 0002998 W 20000803; AT 00949790 T 20000803; AU 6305800 A 20000803; DE 60027790 T 20000803; EP 00949790 A 20000803; GB 9918376 A 19990805