

Title (en)  
PROCESS FOR THE PREPARATION OF ULTRA-FINE POLYMER FIBRES

Publication  
**EP 0325116 A3 19891206 (DE)**

Application  
**EP 89100124 A 19890105**

Priority  
DE 3801080 A 19880116

Abstract (en)  
[origin: JPH01213406A] PURPOSE: To obtain very fine fibers of a thermoplastic polymer by introducing the polymer melt into the nozzle head under a specific preliminary pressure, and discharging the resultant fibers by a high-speed gas stream from the exit holes while being deflected in the axial direction at a specific radial distance. CONSTITUTION: This method introduces the polymer melt into the rotating nozzle head 6 under a preliminary pressure of 1 to 200 bar, and discharges the resultant fibers in the radial direction through small exit holes at an angle of 45 to 90 deg. to the rotating axis. The fibers are deflected in the axial direction by deflecting gas streams 7 and 8 having the axial component at a radial distance of 10 to 200 mm from the exit holes, and are simultaneously drawn and stretched into the very fine fibers of 0.1 to 10 µm in diameter and finite length.

IPC 1-7  
**D01D 5/18**

IPC 8 full level  
**D01F 6/06** (2006.01); **D01D 5/08** (2006.01); **D01D 5/18** (2006.01); **D01F 6/60** (2006.01)

CPC (source: EP US)  
**D01D 5/18** (2013.01 - EP US); **D04H 3/009** (2013.01 - EP US); **D04H 3/011** (2013.01 - EP US); **D04H 3/02** (2013.01 - EP US);  
**D04H 3/16** (2013.01 - EP US)

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Designated contracting state (EPC)  
AT BE CH DE ES FR GB IT LI NL

DOCDB simple family (publication)  
**EP 0325116 A2 19890726; EP 0325116 A3 19891206; EP 0325116 B1 19920311**; AT E73507 T1 19920315; DE 3801080 A1 19890727;  
DE 58900934 D1 19920416; ES 2030214 T3 19921016; JP H01213406 A 19890828; US 4937020 A 19900626

DOCDB simple family (application)  
**EP 89100124 A 19890105**; AT 89100124 T 19890105; DE 3801080 A 19880116; DE 58900934 T 19890105; ES 89100124 T 19890105;  
JP 502789 A 19890113; US 29269689 A 19890103