

Title (en)

METHOD FOR MAKING A FLEECE OF CONTINUOUS FILAMENTS, AND APPARATUS FOR CARRYING OUT THIS METHOD

Publication

EP 0224435 B1 19920219 (DE)

Application

EP 86730192 A 19861121

Priority

DE 3541127 A 19851121

Abstract (en)

[origin: US4818466A] To produce non-woven materials, endless filaments in the form of a warp are drawn off a filament draw-off nozzle to which are joined a filament offlet, a filament guide tube and a spreading extruder. An amount of compressed air under high pressure is admitted to the filament draw-off nozzle, and by means of the spreading extruder provided with Coanda shells the warp is loosened before impacting on a screen conveyor. In order to achieve as evenly as possible a distribution and loosening of the warp, slot nozzles are provided on either side of the spreading extruder, which are supplied with a reduced amount of compressed air under relative low pressure. Simultaneously, a reduction of the amount of compressed air at the filament drawoff nozzle takes place. The additional air, supplied via the slot nozzles, surprisingly makes possible a considerable improvement in the spreading of the warp, and at the same time a savings in energy is also achieved in connection with the reduction of the amount of compressed air at the filament draw-off nozzle, while the filament draw-off force is maintained.

IPC 1-7

D04H 3/03

IPC 8 full level

D04H 3/007 (2012.01); **D04H 3/02** (2006.01); **D04H 3/16** (2006.01)

CPC (source: EP US)

D04H 3/007 (2013.01 - EP US); **D04H 3/02** (2013.01 - EP US); **D04H 3/16** (2013.01 - EP US)

Cited by

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EP 0224435 A2 19870603; **EP 0224435 A3 19890315**; **EP 0224435 B1 19920219**; AT E72681 T1 19920315; DE 3541127 A1 19870527; DE 3541127 C2 19890810; DE 3683927 D1 19920326; ES 2031074 T3 19921201; JP H02463 B2 19900108; JP S62206073 A 19870910; US 4818466 A 19890404

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