

Title (en)

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

Publication

**EP 0223734 B1 19910925 (DE)**

Application

**EP 86730191 A 19861121**

Priority

DE 3541128 A 19851121

Abstract (en)

[origin: US4847035A] 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. By means of the invention the amount of compressed air at the filament draw-off nozzle is reduced and at the same time an additional amount of compressed air under relatively low pressure is admitted between the filament guide tube and the spreading extruder by means of a propelling nozzle. In spite of an additional amount of compressed air at the propelling nozzle the reduction at the filament draw-off nozzle is so large that for the isothermal compression output as a whole a considerable savings in energy of almost 30% can be achieved, and this while maintaining the important filament draw-off force necessary for the drawing of the filaments inside the filament offlet. In addition, the additional compressed air also permits an improved, more even distribution of the warp at the exit of the spreading extruder, whereby the quality of the non-woven material is improved.

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**D04H 3/03**

IPC 8 full level

**D04H 3/03** (2012.01)

CPC (source: EP US)

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