

## Title (en)

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

## Publication

**EP 0224435 A3 19890315 (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

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## 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)

## Citation (search report)

- [AD] DE 1785158 A1 19710318 - MERCK PATENT GMBH
- [A] DE 2421401 A1 19751113 - BENECKE GMBH J
- [A] US 3563838 A 19710216 - EDWARDS CLIFTON VEDANTUS
- [A] FR 2112416 A1 19720616 - LUTRAVIL SPINNVILIES

## Cited by

EP0448295A1; EP1138813A1; DE4312419A1; US5460500A; US6663823B2

## Designated contracting state (EPC)

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## DOCDB simple family (application)

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