

Title (en)

Device for producing filaments from thermoplastic material

Title (de)

Vorrichtung zur Herstellung von Filamenten aus thermoplastischem Kunststoff

Title (fr)

Dispositif pour la production de filaments en matériau thermoplastique

Publication

EP 1637632 B1 20070801 (DE)

Application

EP 04022248 A 20040917

Priority

EP 04022248 A 20040917

Abstract (en)

[origin: EP1637632A1] The melt blowing head (2) has a core (3) feeding molten plastic to a row of nozzle bores (4). On each side of the core, primary air is blown against the sides of the filaments, close to the nozzle openings. At least one secondary blowing-air supply is provided. This impinges on the filaments (1) from the sides, below the blowing head. Primary air is supplied on both sides through gaps (5) between the core and nozzle lips (6). Gap width (w) and spacing (x) between core tip and a notional horizontal extension (broken line) of the nozzle lips, is adjustable. The secondary air blast is introduced preferably at 75[deg]-90[deg] with respect to the axis (7) through the nozzle bore (4). It is introduced at 90[deg]. It is heated above room temperature, to preferably 60[deg]C or more. Its relative humidity is preferably less than 20%. It is blown from both sides against the filaments. Blowing from at least one side is constant. Blowing from at least one side is pulsed. A unit (8) is provided, onto which the filaments are laid, to form a spun-bonded fleece fabric.

IPC 8 full level

D01D 4/02 (2006.01); **D01D 5/098** (2006.01); **D04H 3/00** (2006.01)

CPC (source: EP KR US)

D01D 4/00 (2013.01 - KR); **D01D 4/025** (2013.01 - EP US); **D01D 5/098** (2013.01 - EP US); **D04H 3/02** (2013.01 - KR)

Cited by

DE102012004227A1; US9168471B2; US9617658B2; US10273611B2; US11571645B2; WO2012020053A1; WO2013182296A1

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DOCDB simple family (publication)

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