

## Title (en)

METHOD AND DEVICE FOR MELT-BLOWING, FORMING AND PLAINTING FINITE FIBRES TO PRODUCE A FIBROUS NONWOVEN

## Title (de)

VERFAHREN UND VORRICHTUNG ZUM SCHMELZBLASEN, FORMIEREN UND ABLEGEN ENDLICHER FASERN ZU EINEM FASERVLIES

## Title (fr)

PROCÉDÉ ET DISPOSITIF DE FUSION-SOUFFLAGE, DE FORMATION ET DE DÉPÔT DE FIBRES FINIES POUR OBTENIR UN NON-TISSÉ

## Publication

**EP 2841634 B1 20180606 (DE)**

## Application

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## Abstract (en)

[origin: WO2013160134A1] The invention relates to a method and a device for melt-blowing, forming and plaiting finite fibres to produce a fibrous nonwoven. Here, the fibre streams which are produced by a melt-blowing die and a hot air flow are blown into a forming gap of a forming element, wherein the fibres are joined together within the forming gap to produce a fibre composite. In order to influence the filling and the forming of the fibres within the forming gap directly below the melt-blowing die, according to the invention the fibres are freely guided substantially vertically from the melt-blowing die as far as the forming gap via an adjustable blowing section, wherein the adjustability of the blowing section lies in the range from 100 mm to 2000 mm. In this way, both very fine fibres and coarse fibres can advantageously be formed to produce a loose fibre composite.

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## Citation (examination)

- US 2009162276 A1 20090625 - MARTIN DAVID P [US], et al
- US 6517648 B1 20030211 - BOUCHETTE MICHAEL PAUL [US], et al

## Citation (opposition)

Opponent : Reifenhäuser GmbH & Co. KG Maschinenfabrik

- US 4375446 A 19830301 - FUJII SHIGEO [JP], et al
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- DENIZ DURAN ET AL.: "Investigation of the Physical Characteristics of Polypropylene Meltblown Nonwovens under varying production parameters", THERMOPLASTIC ELASTOMERS, March 2012 (2012-03-01), pages 243 - 264, XP055574544

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