

Title (en)

METHOD FOR THE CONTINUOUS PRODUCTION OF NONWOVEN FABRIC, AND ASSOCIATED NONWOVEN FABRIC PRODUCTION APPARATUS AND NONWOVEN BOARD

Title (de)

KONTINUIERLICHES FASERVLIES-HERSTELLUNGSVERFAHREN SOWIE ZUGEHÖRIGE FASERVLIES-HERSTELLUNGSANORDNUNG UND FASERVLIESPLATINE

Title (fr)

PROCÉDÉ DE PRODUCTION CONTINUE D'UN TISSU NON TISSÉ ET APPAREIL DE PRODUCTION DE TISSU NON TISSÉ ASSOCIÉ ET PANNEAU NON TISSÉ

Publication

**EP 4168616 B1 20240403 (DE)**

Application

**EP 21736967 A 20210615**

Priority

- DE 102020116315 A 20200619
- DE 2021100511 W 20210615

Abstract (en)

[origin: WO2021254565A1] The invention relates to a method for the production of a continuous nonwoven fabric from fibre mixtures of carrier fibres and binding fibres, comprising the steps: a. Feeding fibres; b. Breaking up, combing and opening out the fibres; c. Mixing the fibres; d. Sucking the fibres between two opposing air-permeable conveyor belts running at identical speed, such that the air is sucked from the outside in the front section of the conveyor belts in such a way that the air flow is always sucked through the deposited nonwoven fabric by air extraction at different times and different locations across the width and parallel to the conveyor belts and the fibres are thereby positioned perpendicular to the surface of the conveyor belts; e. Thermally solidifying the nonwoven fabric created by heating with hot air or short-wave radiation and cooling. The invention further relates to a nonwoven fabric production apparatus.

IPC 8 full level

**D04H 1/732** (2012.01); **D04H 1/54** (2012.01); **D04H 1/542** (2012.01); **D04H 1/74** (2006.01)

CPC (source: EP KR US)

**D04H 1/54** (2013.01 - EP); **D04H 1/542** (2013.01 - EP KR US); **D04H 1/558** (2013.01 - US); **D04H 1/732** (2013.01 - EP KR US); **D04H 1/74** (2013.01 - EP KR)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**DE 102020116315 A1 20211223**; CN 116134190 A 20230516; EP 4168616 A1 20230426; EP 4168616 B1 20240403; EP 4168616 C0 20240403; KR 20230024992 A 20230221; US 2023228018 A1 20230720; WO 2021254565 A1 20211223

DOCDB simple family (application)

**DE 102020116315 A 20200619**; CN 202180060287 A 20210615; DE 2021100511 W 20210615; EP 21736967 A 20210615; KR 20237001533 A 20210615; US 202118010047 A 20210615