

Title (en)
METHOD AND DEVICE FOR MANUFACTURING A SPUNBONDING FABRIC MADE OF FILAMENTS AND SPUN FABRIC

Title (de)
VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG EINES SPINNVLIESES AUS FILAMENTEN UND SPINNVLIES

Title (fr)
PROCÉDÉ ET DISPOSITIF DE PRODUCTION D'UN NON-TISSÉ EN FILAMENTS ET NON-TISSÉ

Publication
EP 3088585 B1 20170621 (DE)

Application
EP 15165268 A 20150427

Priority
EP 15165268 A 20150427

Abstract (en)
[origin: US2016312384A1] A method of making a spun-bond nonwoven fabric of thermoplastic filaments has the steps of first spinning the thermoplastic filaments, then cooling the spun filaments, and then conducting the cooled and spun filaments in a travel direction through a stretcher with primary air such that the primary air exits a downstream end of the stretcher with the filaments at a predetermined primary air volume/flow VP. The filaments and substantially all of the primary air are passed together as a flow from the downstream end of the stretcher into a diffuser. Secondary air is introduced into the flow at a secondary air volume/flow VS such that a ratio VP/VS of the primary rate VP to the secondary rate is equal to at least 4.5 and the primary and secondary air flow with the filaments in the travel direction through the diffuser.

IPC 8 full level
D04H 3/007 (2012.01); **D01D 5/088** (2006.01); **D01D 5/092** (2006.01); **D01D 5/098** (2006.01); **D04H 3/02** (2006.01); **D04H 3/03** (2012.01); **D04H 3/16** (2006.01)

CPC (source: CN EP KR RU US)
D01D 5/088 (2013.01 - CN KR); **D01D 5/092** (2013.01 - EP US); **D01D 5/0985** (2013.01 - EP US); **D01D 5/12** (2013.01 - CN); **D04H 3/007** (2013.01 - EP US); **D04H 3/02** (2013.01 - EP US); **D04H 3/03** (2013.01 - EP US); **D04H 3/14** (2013.01 - CN); **D04H 3/16** (2013.01 - EP US); **D04H 13/00** (2013.01 - KR RU); **D06H 5/00** (2013.01 - KR); **D10B 2321/022** (2013.01 - US)

Cited by
CN113755951A; EP3382081A1; RU2704908C2; WO2021122378A1; WO2021170607A1; WO2021170608A1; WO2021170609A1; WO2021170610A1; WO2021170605A1; WO2020115142A1; US11939713B2; WO2020016296A1; US11976397B2; WO2021122377A1; WO2021122379A1

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)
EP 3088585 A1 20161102; **EP 3088585 B1 20170621**; AR 104414 A1 20170719; BR 102016009291 A2 20161101; BR 102016009291 B1 20220628; CN 106192216 A 20161207; CN 106192216 B 20180904; DK 3088585 T3 20170925; ES 2639234 T3 20171025; KR 102481045 B1 20221223; KR 20160127668 A 20161104; MX 2016005363 A 20171024; MX 358520 B 20180824; PL 3088585 T3 20171130; RU 2633245 C1 20171011; SI 3088585 T1 20171030; US 2016312384 A1 20161027; US 9982367 B2 20180529

DOCDB simple family (application)
EP 15165268 A 20150427; AR P160101178 A 20160426; BR 102016009291 A 20160426; CN 201610542713 A 20160427; DK 15165268 T 20150427; ES 15165268 T 20150427; KR 20160050726 A 20160426; MX 2016005363 A 20160425; PL 15165268 T 20150427; RU 2016116403 A 20160426; SI 201530096 T 20150427; US 201615138321 A 20160426