Title (en)

DEVICE FOR MANUFACTURING NON-WOVEN MATERIAL

Title (de)

VORRICHTUNG ZUR HERSTELLUNG VON SPINNVLIESEN

Title (fr)

DISPOSITIF DESTINE A LA FABRICATION DE MATIERES NON TISSEES

Publication

EP 3199671 B1 20200304 (DE)

Application

EP 16152906 A 20160127

Priority

EP 16152906 A 20160127

Abstract (en)

[origin: US2017211218A1] An apparatus for making a spunbond nonwoven from monofilaments of thermoplastic synthetics has a spinneret for spinning and emitting the filaments in a travel direction, a cooler downstream of the spinneret for cooling the spun filaments, and a stretcher downstream of the cooler for stretching the filaments. An intermediate passage extending in the travel direction between the cooler and the stretcher has upstream and downstream converging passage sections. The upstream passage section in the travel direction of the filaments having a shorter length than the downstream passage section in the travel direction of the filaments. A ratio BE/BA of an inlet width BE to an outlet width BA of the upstream passage section is 1.5 to 5.5. A ratio of an inlet width bE, to an outlet width bA, of the downstream passage section is 1 to 4.

IPC 8 full level

D01D 5/098 (2006.01); **D01D 13/02** (2006.01); **D04H 3/02** (2006.01); **D04H 3/16** (2006.01)

CPC (source: CN EP IL KR RU US)

D01D 5/098 (2013.01 - IL RU); **D01D 5/0985** (2013.01 - EP IL KR US); **D01D 5/32** (2013.01 - IL KR US); **D01D 13/02** (2013.01 - CN EP IL US); **D04H 3/02** (2013.01 - CN EP IL KR US); **D04H 3/16** (2013.01 - EP IL KR US)

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 3199671 A1 20170802; **EP 3199671 B1 20200304**; AR 107333 A1 20180418; AU 2016389173 A1 20180816; AU 2016389173 B2 20211209; BR 112018014641 A2 20181211; BR 112018014641 B1 20230314; CA 3012047 A1 20170803; CA 3012047 C 20200929; CL 2018001991 A1 20181123; CN 107012592 A 20170804; CN 107012592 B 20210723; CO 2018007785 A2 20180810; DK 3199671 T3 20200525; ES 2795402 T3 20201123; IL 260722 B 20200630; JP 2019504219 A 20190214; JP 6676764 B2 20200408; KR 102148588 B1 20200826; KR 20180102663 A 20180917; MA 42890 A1 20190731; MA 42890 B1 20201028; MX 2018009096 A 20181109; MY 195050 A 20230105; PE 20181383 A1 20180905; PL 3199671 T3 20200810; RU 2710675 C1 20191230; SA 518392079 B1 20210726; SI 3199671 T1 20200731; TN 2018000237 A1 20200116; UA 122432 C2 20201110; US 10385491 B2 20190820; US 2017211218 A1 20170727; WO 2017129318 A1 20170803; ZA 201804913 B 20190925

DOCDB simple family (application)

EP 16152906 A 20160127; AR P170100060 A 20170110; AU 2016389173 A 20161216; BR 112018014641 A 20161216; CA 3012047 A 20161216; CL 2018001991 A 20180723; CN 201710062718 A 20170125; CO 2018007785 A 20180727; DK 16152906 T 20160127; EP 2016081413 W 20161216; ES 16152906 T 20160127; IL 26072218 A 20180722; JP 2018539092 A 20161216; KR 20187024204 A 20161216; MA 42890 A 20161216; MX 2018009096 A 20161216; MY PI2018702569 A 20161216; PE 2018001344 A 20161216; PL 16152906 T 20160127; RU 2018130373 A 20161216; SA 518392079 A 20180724; SI 201630780 T 20160127; TN 2018000237 A 20161216; UA A201808929 A 20161216; US 201715415088 A 20170125; ZA 201804913 A 20180720