

Title (en)

METHOD FOR PRODUCING A TEXTILE FABRIC HAVING ELECTROSTATICALLY CHARGED FIBERS AND TEXTILE FABRIC

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES TEXTILEN GEBILDES MIT ELEKTROSTATISCH GELADENEN FASERN UND TEXTILES GEBILDE

Title (fr)

PROCÉDÉ DE FABRICATION D'UNE STRUCTURE TEXTILE POURVUE DE FIBRES À CHARGES ÉLECTROSTATIQUES ET STRUCTURE TEXTILE

Publication

EP 3775346 A1 20210217 (DE)

Application

EP 19712559 A 20190319

Priority

- DE 102018108228 A 20180406
- EP 2019056778 W 20190319

Abstract (en)

[origin: WO2019192837A1] The invention relates to a method for producing a textile fabric that has triboelectrically charged fibers, and a textile fabric. At least two separate nozzle bars or at least one multi-polymer nozzle bar is used to produce fibers from different polymers, the polymers having a suitably large distance in the triboelectric series. In the process, the fibers produced from the polymers are mixed and triboelectrically charged at least in some regions. Alternatively or additionally, the fibers are triboelectrically charged by an uncomplicated post-treatment. Filters having quality factors greater than 0.2 can be produced using the textile fabric.

IPC 8 full level

D04H 1/42 (2012.01); **B01D 39/16** (2006.01); **D04H 1/4382** (2012.01); **D04H 1/56** (2006.01); **D04H 3/005** (2012.01); **D04H 3/16** (2006.01)

CPC (source: EP KR US)

B01D 39/1623 (2013.01 - EP KR); **D01D 5/04** (2013.01 - US); **D01D 5/08** (2013.01 - US); **D01F 6/665** (2013.01 - US); **D02J 1/16** (2013.01 - US); **D04H 1/42** (2013.01 - EP); **D04H 1/4282** (2013.01 - US); **D04H 1/43835** (2020.05 - EP KR US); **D04H 1/43838** (2020.05 - EP KR US); **D04H 1/56** (2013.01 - EP KR); **D04H 3/005** (2013.01 - EP KR); **D04H 3/16** (2013.01 - EP KR US); **D06M 10/02** (2013.01 - US); **B01D 2239/0428** (2013.01 - EP KR); **B01D 2239/0435** (2013.01 - EP KR); **B01D 2239/0622** (2013.01 - EP KR); **B01D 2239/064** (2013.01 - EP KR); **B01D 2239/10** (2013.01 - EP KR); **D10B 2201/22** (2013.01 - US); **D10B 2321/022** (2013.01 - US); **D10B 2321/041** (2013.01 - US); **D10B 2321/08** (2013.01 - US); **D10B 2321/10** (2013.01 - US); **D10B 2321/121** (2013.01 - US); **D10B 2331/02** (2013.01 - US); **D10B 2331/04** (2013.01 - US); **D10B 2331/061** (2013.01 - US); **D10B 2331/10** (2013.01 - US); **D10B 2401/16** (2013.01 - US); **D10B 2505/04** (2013.01 - US)

Citation (search report)

See references of WO 2019192837A1

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2019192837 A1 20191010; BR 112020020184 A2 20210105; CA 3062606 A1 20191127; CN 111989429 A 20201124; DE 102018108228 A1 20191010; EP 3775346 A1 20210217; JP 2021517063 A 20210715; KR 20200140234 A 20201215; MX 2020009389 A 20201028; RU 2019144035 A 20220506; TW 201945061 A 20191201; US 2021102318 A1 20210408

DOCDB simple family (application)

EP 2019056778 W 20190319; BR 112020020184 A 20190319; CA 3062606 A 20190319; CN 201980023719 A 20190319; DE 102018108228 A 20180406; EP 19712559 A 20190319; JP 2019572407 A 20190319; KR 20207004527 A 20190319; MX 2020009389 A 20190319; RU 2019144035 A 20190319; TW 108111636 A 20190402; US 201917041086 A 20190319