

Title (en)
SUPERABSORBENT BI-COMPONENT FIBER

Title (de)
SUPERABSORBIERENDE BIKOMPONENTENFASER

Title (fr)
FIBRE SUPERABSORBANTE À DEUX COMPOSANTS

Publication
EP 2334852 A1 20110622 (DE)

Application
EP 09748020 A 20091006

Priority
• EP 2009007160 W 20091006
• DE 102008051430 A 20081011

Abstract (en)
[origin: WO2010040500A1] A superabsorbent bi-component fiber, wherein component A is at least one thermoplastic polymer and component B is a compound selected from at least one thermoplastic base polymer and at least one superabsorbent polymer (SAP), and also a method for production thereof are described. The melting point of the thermoplastic contained in component A is at least 20°C higher than the melting point of the thermoplastic contained in component B, the average grain size of the SAP is 0.5 to 10 µm and the compound has an SAP-fraction of 0.5 to 40 wt%. The bi-component fiber can be used to produce superabsorbent textile fabrics which are used in particular in the field of hygiene and medicine.

IPC 8 full level
D01F 1/10 (2006.01); **B32B 1/00** (2024.01); **D01F 8/00** (2006.01); **D01F 8/06** (2006.01); **D01F 8/14** (2006.01)

CPC (source: EP US)
D01F 1/10 (2013.01 - EP US); **D01F 8/06** (2013.01 - EP US); **D01F 8/14** (2013.01 - EP US); **Y10T 428/1362** (2015.01 - EP US); **Y10T 428/249921** (2015.04 - EP US); **Y10T 428/2927** (2015.01 - EP US); **Y10T 442/608** (2015.04 - EP US)

Cited by
CN111058108A

Designated contracting state (EPC)
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 SE SI SK SM TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
DE 102008051430 A1 20100415; DE 202008017741 U1 20100512; DK 2334852 T3 20160517; EP 2334852 A1 20110622; EP 2334852 B1 20160330; JP 2012505317 A 20120301; JP 2015028235 A 20150212; JP 5882057 B2 20160309; US 2011195214 A1 20110811; WO 2010040500 A1 20100415

DOCDB simple family (application)
DE 102008051430 A 20081011; DE 202008017741 U 20081011; DK 09748020 T 20091006; EP 09748020 A 20091006; EP 2009007160 W 20091006; JP 2011530407 A 20091006; JP 2014169685 A 20140822; US 200913122760 A 20091006