

Title (en)
SUPERABSORBENT BI-COMPONENT FIBER

Title (de)
SUPERABSORBIERENDE BIKOMPONENTENFASER

Title (fr)
FIBRE SUPERABSORBANTE À DEUX COMPOSANTS

Publication
EP 2334852 B1 20160330 (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); **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)

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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

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

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