

Title (en)  
MODIFIED CELLULOSIC FIBERS

Title (de)  
MODIFIZIERTE CELLULOSISCHE FASERN

Title (fr)  
FIBRES CELLULOSIQUES MODIFIÉES

Publication  
**EP 3976866 A4 20230628 (EN)**

Application  
**EP 20815115 A 20200512**

Priority  
• US 201962855162 P 20190531  
• CA 2020050643 W 20200512

Abstract (en)  
[origin: WO2020237347A1] The disclosure provides a fibrous material comprising a plurality of fibers, the fibers being natural or synthetic cellulosic fibers or natural or synthetic protein fibers, and wherein the fibers are treated with a cationic compound. The disclosure also provides a method for imparting improved compatibility with quaternary ammonium compounds to a fibrous material, including: providing a fibrous material comprising a plurality of fibers, the fibers being natural or synthetic cellulosic fibers or natural or synthetic protein fibers; optionally, pre-treating the fibrous material with a base; treating the fibrous material with at least one cationic compound to impart improved compatibility with quaternary ammonium compounds; and optionally, further treating the treated fibrous material with a polymer or resin.

IPC 8 full level  
**D01F 8/02** (2006.01); **D06M 11/00** (2006.01); **D06M 13/00** (2006.01); **D06M 13/46** (2006.01); **D06M 15/356** (2006.01); **D06M 15/61** (2006.01); **D06M 11/17** (2006.01); **D06M 11/57** (2006.01); **D06M 11/76** (2006.01); **D06M 13/188** (2006.01); **D06M 16/00** (2006.01)

CPC (source: EP IL KR US)  
**D04H 1/425** (2013.01 - EP); **D04H 1/4258** (2013.01 - EP); **D04H 1/4266** (2013.01 - EP); **D04H 1/4334** (2013.01 - EP); **D06M 11/00** (2013.01 - EP IL KR); **D06M 11/17** (2013.01 - IL KR US); **D06M 11/57** (2013.01 - IL KR US); **D06M 11/76** (2013.01 - IL KR US); **D06M 13/00** (2013.01 - EP IL KR); **D06M 13/188** (2013.01 - IL KR); **D06M 13/46** (2013.01 - EP IL KR US); **D06M 15/3562** (2013.01 - EP IL KR US); **D06M 15/61** (2013.01 - EP IL KR); **D06M 16/00** (2013.01 - IL KR); **D06M 11/17** (2013.01 - EP); **D06M 11/57** (2013.01 - EP); **D06M 11/76** (2013.01 - EP); **D06M 13/188** (2013.01 - EP); **D06M 16/00** (2013.01 - EP); **D06M 2101/06** (2013.01 - EP IL KR US); **D06M 2101/12** (2013.01 - EP IL KR US); **D06M 2200/30** (2013.01 - EP IL KR US)

Citation (search report)  
• [XAI] US 2004058600 A1 20040325 - BUNYARD W CLAYTON [US], et al  
• [XA] US 2016201239 A1 20160714 - BAER SAMUEL C [US], et al  
• [XA] EP 2963167 A1 20160106 - NAPORO KLIMA DÄMMSTOFF GMBH [AT]  
• See also references of WO 2020237347A1

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)  
**WO 2020237347 A1 20201203**; AU 2020284281 A1 20220106; BR 112021024093 A2 20220111; CA 3142310 A1 20201203; CN 114207198 A 20220318; EP 3976866 A1 20220406; EP 3976866 A4 20230628; IL 288469 A 20220101; JP 2022535775 A 20220810; KR 20220016492 A 20220209; MX 2021014750 A 20220118; TW 202111174 A 20210316; US 2022213645 A1 20220707

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**CA 2020050643 W 20200512**; AU 2020284281 A 20200512; BR 112021024093 A 20200512; CA 3142310 A 20200512; CN 202080056088 A 20200512; EP 20815115 A 20200512; IL 28846921 A 20211128; JP 2021571303 A 20200512; KR 20217042789 A 20200512; MX 2021014750 A 20200512; TW 109116599 A 20200519; US 202017614818 A 20200512