

Title (en)

LYOCELL FIBER WITH NOVEL CROSS SECTION

Title (de)

LYOCELLFASER MIT NEUARTIGEM QUERSCHNITT

Title (fr)

FIBRE LYOCELL COMPORTANT UNE NOUVELLE SECTION TRANSVERSALE

Publication

EP 3536831 A1 20190911 (EN)

Application

EP 18160130 A 20180306

Priority

EP 18160130 A 20180306

Abstract (en)

The present invention provides a lyocell fiber with increased porosity and homogeneous distribution of hemicelluloses over the fiber cross section as well as a method for producing same and products comprising same.

IPC 8 full level

D01F 2/00 (2006.01)

CPC (source: EP)

D01F 2/00 (2013.01); **D01F 2/02** (2013.01)

Citation (applicant)

- US 6042769 A 20000328 - GANNON JAMES MARTIN [GB], et al
- US 6706237 B2 20040316 - LUO MENGKUI [US], et al
- US 8420004 B2 20130416 - CHOU WEN-TUNG [TW], et al
- WO 2014086883 A1 20140612 - CHEMIEFASER LENZING AG [AT]
- US 4246221 A 19810120 - MCCORSLEY III CLARENCE C
- WO 9428214 A1 19941208 - COURTAULDS FIBRES HOLDINGS LTD [GB]
- WO 9633934 A1 19961031 - CHEMIEFASER LENZING AG [AT]
- WO 9633221 A1 19961024 - CHEMIEFASER LENZING AG [AT]
- WO 9805702 A1 19980212 - CHEMIEFASER LENZING AG [AT], et al
- WO 9428217 A1 19941208 - COURTAULDS FIBRES HOLDINGS LTD [GB]
- WO 9319230 A1 19930930 - CHEMIEFASER LENZING AG [AT]
- WO 9502082 A1 19950119 - CHEMIEFASER LENZING AG [AT], et al
- WO 9738153 A1 19971016 - COURTAULDS FIBRES HOLDINGS LTD [GB], et al
- ZHANG ET AL., POLYMER ENGINEERING AND SCIENCE, vol. 47, 2007, pages 702 - 706
- JOURNAL OF APPLIED POLYMER SCIENCE, vol. 107, 2008, pages 636 - 641
- SCHILD; LIFTINGER, CELLULOSE, vol. 21, 2014, pages 3031 - 3039
- "Terminology of Man-Made Fibres", 2009
- CARBOHYDRATE POLYMERS, vol. 181, 2018, pages 893 - 901
- ZHANG ET AL., POLYM. ENGIN. SCI., vol. 47, 2007, pages 702 - 706
- J.APPL. POLYM.SCI., vol. 106, 2007, pages 2083 - 2091
- SJOBERG ET AL., BIOMACROMOLECULES, vol. 6, 2005, pages 3146 - 3151

Citation (search report)

- [XAI] WO 0162845 A1 20010830 - ZIMMER AG [DE], et al
- [XI] US 2009004473 A1 20090101 - LUO MENGKUI [US]
- [AD] US 6706237 B2 20040316 - LUO MENGKUI [US], et al
- [XI] H EBELING ET AL: "CELLULOSE MELTBLOWN NONWOVENS USING THE LYOCELL-PROCESS", LENZINGER BERICHTE, vol. 86, 1 January 2006 (2006-01-01), pages 124 - 131, XP055498789
- [T] PALA ET AL: "Enzymatic depolymerisation of cellulose", CARBOHYDRATE POLYM, APPLIED SCIENCE PUBLISHERS, LTD. BARKING, GB, vol. 68, no. 1, 7 February 2007 (2007-02-07), pages 101 - 108, XP005878267, ISSN: 0144-8617, DOI: 10.1016/J.CARBPOL.2006.07.015
- [A] FRANK WENDLER ET AL: "Morphology of polysaccharide blend fibers shaped from NaOH,-methylmorpholine--oxide and 1-ethyl-3-methylimidazolium acetate", CELLULOSE, KLUWER ACADEMIC PUBLISHERS (DORDRECHT), NL, vol. 18, no. 5, 5 July 2011 (2011-07-05), pages 1165 - 1178, XP019936834, ISSN: 1572-882X, DOI: 10.1007/S10570-011-9559-2

Cited by

WO2022139727A1

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)

EP 3536831 A1 20190911; TW 201938669 A 20191001; WO 2019170714 A1 20190912

DOCDB simple family (application)

EP 18160130 A 20180306; EP 2019055516 W 20190306; TW 108107363 A 20190306