

Title (en)
METHOD FOR PRODUCING CELLULOSE FIBER

Title (de)
VERFAHREN ZUR HERSTELLUNG VON CELLULOSEFASER

Title (fr)
PROCEDE DE PRODUCTION DE FIBRE CELLULOSIQUE

Publication
EP 1841905 B1 20100929 (EN)

Application
EP 05804903 A 20051230

Priority
• KR 2005004677 W 20051230
• KR 20040116907 A 20041230

Abstract (en)
[origin: US2008054516A1] The present invention relates to a method for producing a cellulose solution which is homogeneous at low temperatures, and to fiber produced by the method. More particularly, the invention relates to a production of a cellulose solution which is homogeneous at low temperatures, by dissolving a small amount of the cellulose powder in concentrated liquid N-methylmorpholine-N-oxide (NMMO) to lower the solidification temperature of NMMO, introducing the low-temperature, concentrated liquid NMMO solution having cellulose dissolved and the cellulose powder into a kneader, mixing and swelling the cellulose in the kneader without a process of reducing pressure to produce a paste, and then supplying the paste into an extruder to dissolve the paste in a homogeneous solution.

IPC 8 full level
D01F 2/00 (2006.01)

CPC (source: EP KR US)
D01D 1/02 (2013.01 - EP US); **D01F 1/10** (2013.01 - KR); **D01F 2/00** (2013.01 - EP KR US); **D04H 1/28** (2013.01 - KR);
D10B 2201/20 (2013.01 - KR)

Cited by
WO2015101543A1; US10883196B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2006071101 A1 20060706; AT E483044 T1 20101015; CN 100354461 C 20071212; CN 1796624 A 20060705;
DE 602005023907 D1 20101111; EP 1841905 A1 20071010; EP 1841905 A4 20090819; EP 1841905 B1 20100929; JP 2006188806 A 20060720;
JP 4210285 B2 20090114; KR 100575388 B1 20060503; RU 2007124513 A 20090210; RU 2362845 C2 20090727; TW 200626617 A 20060801;
TW I310386 B 20090601; US 2008054516 A1 20080306

DOCDB simple family (application)
KR 2005004677 W 20051230; AT 05804903 T 20051230; CN 200510097102 A 20051230; DE 602005023907 T 20051230;
EP 05804903 A 20051230; JP 2005374370 A 20051227; KR 20040116907 A 20041230; RU 2007124513 A 20051230;
TW 94146220 A 20051223; US 56509805 A 20051230