

Title (en)

METHOD FOR PRODUCING CELLULOSIC MATERIAL WITH LOW LIGNIN CONTENT FROM LIGNOCELLULOSIC MATERIAL

Title (de)

VERFAHREN ZUR HERSTELLUNG VON ZELLSTOFF MIT NIEDRIGEM LIGNINGEHALT AUS LIGNOCELLULOSISCHEM MATERIAL

Title (fr)

PROCÉDÉ DE FABRICATION DE PÂTE À PAPIER À FAIBLE TENEUR EN LIGNINE À PARTIR DE MATIÈRE LIGNOCELLULOSIQUE

Publication

EP 2844796 A1 20150311 (DE)

Application

EP 13723025 A 20130424

Priority

- EP 12166676 A 20120503
- EP 2013058535 W 20130424
- EP 13723025 A 20130424

Abstract (en)

[origin: WO2013164234A1] The invention relates to a method for obtaining pulp having low lignin content, characterized by a combination of the measures in which a) lignocellulosic material is treated with an aqueous solution, which contains a C1-6 alcohol and has a pH value of 10 to 14, at a temperature below 100°C, whereupon the aqueous solution, in which lignin that was cleaved from the lignocellulose is dissolved, is separated from the solid, which is a material enriched with cellulose and hemicellulose, b) hemicellulose is removed from the material enriched with cellulose and hemicellulose from a), c) the material obtained in b), which is depleted of hemicellulose, is treated in aqueous alkaline solution with an alkali, alkaline-earth, or ammonium sulfite, in particular Na₂SO₃, and/or with oxygen, wherein lignin goes into solution and pulp having low lignin content is obtained; and pulp that can be produced by means of the method.

IPC 8 full level

D21C 3/00 (2006.01); **D21C 3/02** (2006.01); **D21C 3/04** (2006.01); **D21C 3/20** (2006.01)

CPC (source: EP US)

D21C 3/00 (2013.01 - EP US); **D21C 3/02** (2013.01 - EP US); **D21C 3/026** (2013.01 - US); **D21C 3/04** (2013.01 - EP US); **D21C 3/20** (2013.01 - EP US); **D21C 5/005** (2013.01 - US); **D21H 17/66** (2013.01 - US)

Citation (search report)

See references of WO 2013164234A1

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)

WO 2013164234 A1 20131107; AR 091998 A1 20150318; EP 2844796 A1 20150311; EP 2844796 B1 20170215; US 2015122429 A1 20150507

DOCDB simple family (application)

EP 2013058535 W 20130424; AR P130101261 A 20130417; EP 13723025 A 20130424; US 201314397919 A 20130424