

Title (en)
Method for obtaining cellulose

Title (de)
Verfahren zur Gewinn von Cellulose

Title (fr)
Procédé de production de cellulose

Publication
EP 2148000 A3 20120201 (DE)

Application
EP 09009419 A 20090721

Priority
RU 2008130711 A 20080724

Abstract (en)
[origin: EP2148000A2] Process for extracting cellulose comprises soaking the cellulose containing raw materials from herbaceous plants in an alkaline solution, thermomechanical-chemical processing of raw materials in a twin-screw apparatus comprising a heated chamber, two parallelly coupled shaft installed within the chamber, on which alternating screw conveyor segments and grinding cam segments are mounted, washing, bleaching, again washing, centrifuging and drying, where before washing, an additional thermo-chemical processing in a twin-screw apparatus, is carried out. Process for extracting cellulose comprises soaking the cellulose containing raw materials from herbaceous plants in an alkaline solution, thermomechanical-chemical processing of raw materials in a twin-screw apparatus comprising a heated chamber, two parallelly coupled shaft installed within the chamber, on which alternative screw conveyor segments and grinding cam segments are mounted, washing, bleaching, again washing, centrifuging and drying, where before washing, an additional thermo-chemical processing in a twin-screw apparatus, on which shaft of alternative screw conveyor segments and brake screw segments are mounted, is carried out.

IPC 8 full level
D21C 1/06 (2006.01); **D21B 1/16** (2006.01); **D21B 1/34** (2006.01); **D21C 3/02** (2006.01); **D21C 9/02** (2006.01); **D21C 9/10** (2006.01); **D21H 11/02** (2006.01); **D21H 11/12** (2006.01)

CPC (source: EP)
D21B 1/30 (2013.01); **D21C 1/06** (2013.01); **D21C 3/02** (2013.01); **D21C 9/02** (2013.01); **D21C 9/10** (2013.01); **D21H 11/02** (2013.01); **D21H 11/12** (2013.01)

Citation (search report)

- [X] WO 2005045126 A1 20050519 - BIOREGIONAL MINIMILLS UK LTD [GB], et al
- [Y] EP 0743393 A2 19961120 - CARTIERA DI CORDENONS S P A [IT], et al
- [Y] US 2006020126 A1 20060126 - KOPESKY ROBERT [US], et al
- [Y] DATABASE WPI Week 200822, Derwent World Patents Index; AN 2008-D02665, XP002666186
- [Y] DATABASE WPI Week 198527, Derwent World Patents Index; AN 1985-162807, XP002666187

Cited by
CN103317572A; RU2761239C1; CN103450363A; CN105625074A; CN108130771A

Designated contracting state (EPC)
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

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
EP 2148000 A2 20100127; EP 2148000 A3 20120201; EP 2148000 B1 20150520; PL 2148000 T3 20151030; RU 2378432 C1 20100110

DOCDB simple family (application)
EP 09009419 A 20090721; PL 09009419 T 20090721; RU 2008130711 A 20080724