

Title (en)

METHOD FOR PRODUCING PAPER, PAPERBOARD AND CARDBOARD HAVING HIGH DRY STRENGTH

Title (de)

VERFAHREN ZUR HERSTELLUNG VON PAPIER, PAPPE UND KARTON MIT HOHER TROCKENFESTIGKEIT

Title (fr)

PROCÉDÉ DE FABRICATION DE PAPIER ET DE CARTON PRÉSENTANT UNE GRANDE RÉSISTANCE À SEC

Publication

EP 1999314 B1 20170222 (DE)

Application

EP 07712497 A 20070309

Priority

- EP 2007052238 W 20070309
- EP 06111267 A 20060316
- EP 07712497 A 20070309

Abstract (en)

[origin: WO2007104716A1] The invention relates to a method for producing paper, paperboard and cardboard having high dry strength by adding a vinylamine entity-containing polymer and lignosulfonic acid and/or a lignosulfonate to a paper pulp, dewatering the pulp and drying the paper products.

IPC 8 full level

D21H 17/43 (2006.01); **D21H 17/23** (2006.01); **D21H 17/42** (2006.01); **D21H 21/18** (2006.01)

CPC (source: EP US)

D21H 21/18 (2013.01 - EP US); **D21H 17/23** (2013.01 - EP US); **D21H 17/42** (2013.01 - EP US); **D21H 17/43** (2013.01 - EP US)

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 MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2007104716 A1 20070920; CA 2644348 A1 20070920; CA 2644348 C 20140610; CN 101405457 A 20090408; CN 101405457 B 20110817; EP 1999314 A1 20081210; EP 1999314 B1 20170222; ES 2625622 T3 20170720; JP 2009530504 A 20090827; JP 5156650 B2 20130306; PT 1999314 T 20170526; US 2010108279 A1 20100506; US 7922867 B2 20110412

DOCDB simple family (application)

EP 2007052238 W 20070309; CA 2644348 A 20070309; CN 200780009235 A 20070309; EP 07712497 A 20070309; ES 07712497 T 20070309; JP 2008558792 A 20070309; PT 07712497 T 20070309; US 28235807 A 20070309