

Title (en)  
METHOD FOR MANUFACTURING PAPER, CARDBOARD AND PAPERBOARD USING ENDO-BETA-1,4 GLUCANASES AS DEWATERING MEANS

Title (de)  
VERFAHREN ZUR HERSTELLUNG VON PAPIER, PAPPE UND KARTON UNTER VERWENDUNG VON ENDO-BETA-1,4-GLUCANASEN ALS ENTWÄSSERUNGSMITTEL

Title (fr)  
PROCÉDÉ DE FABRICATION DE PAPIER ET DE CARTON PAR UTILISATION D'ENDO-BÊTA-1,4-GLUCANASES EN TANT QU'AGENT D'ÉGOUTTAGE

Publication  
**EP 2334871 B1 20180718 (DE)**

Application  
**EP 09782300 A 20090828**

Priority  
• EP 2009061098 W 20090828  
• EP 08163465 A 20080902  
• EP 09782300 A 20090828

Abstract (en)  
[origin: WO2010026101A1] Method for manufacturing paper, cardboard and paperboard by dewatering a paper pulp on a screen in the presence of at least one cationic polymeric retention means and/or retention means system, forming sheets and drying the sheets, wherein prior to the addition of the at least one cationic polymeric retention means and/or retention means system, an endo- $\beta$ -1,4-glucanase at an amount of 0.00001 to 0.01 wt.-%, relative to the dry pulp, is dosed into the pulp.

IPC 8 full level  
**D21H 21/10** (2006.01); **D21H 17/00** (2006.01); **D21H 17/37** (2006.01)

CPC (source: EP US)  
**D21H 21/10** (2013.01 - EP US); **D21H 17/005** (2013.01 - EP US); **D21H 17/375** (2013.01 - EP US); **D21H 17/55** (2013.01 - EP US); **D21H 17/56** (2013.01 - EP US)

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

DOCDB simple family (publication)  
**WO 2010026101 A1 20100311**; BR PI0917678 A2 20151201; BR PI0917678 B1 20190910; CA 2735371 A1 20100311; CA 2735371 C 20131015; EP 2334871 A1 20110622; EP 2334871 B1 20180718; ES 2691384 T3 20181127; US 2011168344 A1 20110714; US 8394237 B2 20130312

DOCDB simple family (application)  
**EP 2009061098 W 20090828**; BR PI0917678 A 20090828; CA 2735371 A 20090828; EP 09782300 A 20090828; ES 09782300 T 20090828; US 200913058874 A 20090828