

Title (en)
GENTLE BLEACHING AGENT

Title (de)
SCHONENDES BLEICHMITTEL

Title (fr)
AGENT DE BLANCHIMENT NON AGRESSIF

Publication
EP 2411496 A1 20120201 (DE)

Application
EP 10707913 A 20100311

Priority
• EP 2010053079 W 20100311
• DE 102009001786 A 20090324

Abstract (en)
[origin: WO2010108782A1] The aim of the invention is reduce the damage to material containing cellulose during the bleaching thereof, by using bleaching catalysts, without significantly affecting the bleaching performance. This is achieved essentially by a method for the bleach treatment of material containing cellulose in the presence of a bleaching agent containing peroxygen and a bleach-enhancing transition metal complex, said method being carried out in the presence of a saccharide polymer carrying carboxy groups.

IPC 8 full level
C11D 3/22 (2006.01); **C11D 3/39** (2006.01); **D06L 3/02** (2006.01); **D06L 4/12** (2017.01); **D21C 9/10** (2006.01); **D21C 9/16** (2006.01)

CPC (source: EP US)
C11D 3/222 (2013.01 - EP US); **C11D 3/3932** (2013.01 - EP US); **D06L 4/12** (2016.12 - EP US); **D21C 9/1036** (2013.01 - EP US);
D21C 9/16 (2013.01 - EP US)

Citation (search report)
See references of WO 2010108782A1

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 2010108782 A1 20100930; DE 102009001786 A1 20101014; EP 2411496 A1 20120201; EP 2411496 B1 20151007;
ES 2552090 T3 20151125; PL 2411496 T3 20160331; US 2012015860 A1 20120119

DOCDB simple family (application)
EP 2010053079 W 20100311; DE 102009001786 A 20090324; EP 10707913 A 20100311; ES 10707913 T 20100311; PL 10707913 T 20100311;
US 201113239588 A 20110922