

Title (en)

REDUCED SHEAR CELLULOSE REACTIVE SIZING AGENT FOR WET END APPLICATIONS

Title (de)

SCHERRREDUZIERTES CELLULOSEREAKTIVES LEIMUNGSMITTEL FÜR ANWENDUNGEN IN DER NASSPARTIE

Title (fr)

AGENT D' ENCOLLAGE REACTIF A LA CELLULOSE A CISAILLEMENT REDUIT POUR DES APPLICATIONS EN MILIEU HUMIDE

Publication

EP 1866480 A1 20071219 (EN)

Application

EP 05821038 A 20051027

Priority

- US 2005038609 W 20051027
- US 65835905 P 20050303

Abstract (en)

[origin: WO2006096216A1] The invention relates to a method for sizing a paper product that involves the steps of (a) providing a paper stock system; (b) forming, in the absence of high shearing forces, an aqueous sizing emulsion comprising an alkenylsuccinic anhydride component; (c) submitting the emulsion formed from step b to a post-dilution step in the presence of a cationic component under conditions, in the absence of high shearing forces, that produce a post-diluted emulsion having improved sizing efficacy; (d) adding the post-diluted emulsion to the paper stock; and (e) forming a paper web.

IPC 8 full level

D21H 17/16 (2006.01); **D21H 17/28** (2006.01); **D21H 17/44** (2006.01); **D21H 21/16** (2006.01); **D21H 21/24** (2006.01); **D21H 23/04** (2006.01)

CPC (source: EP KR US)

D21H 17/16 (2013.01 - EP KR US); **D21H 17/44** (2013.01 - KR); **D21H 21/26** (2013.01 - KR); **D21H 17/28** (2013.01 - EP US); **D21H 17/44** (2013.01 - EP US); **D21H 21/16** (2013.01 - EP US); **D21H 21/24** (2013.01 - EP US); **D21H 23/04** (2013.01 - EP US)

Citation (search report)

See references of WO 2006096216A1

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 NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2006096216 A1 20060914; AR 056272 A1 20071003; BR PI0520060 A2 20090414; CA 2599882 A1 20060914; CN 101228315 A 20080723; EP 1866480 A1 20071219; JP 2008531864 A 20080814; KR 20080006546 A 20080116; TW 200636126 A 20061016; US 2010307706 A1 20101209; ZA 200601754 B 20070328

DOCDB simple family (application)

US 2005038609 W 20051027; AR P060100789 A 20060302; BR PI0520060 A 20051027; CA 2599882 A 20051027; CN 200580049676 A 20051027; EP 05821038 A 20051027; JP 2007557994 A 20051027; KR 20077022714 A 20071004; TW 95107012 A 20060302; US 81772205 A 20051027; ZA 200601754 A 20060228