

Title (en)

AQUEOUS ALKYLDIKETENE DISPERSIONS AND THEIR USE AS SIZE FOR PAPER

Title (de)

WÄSSRIGE ALKYLDIKETEN-DISPERSIONEN UND IHRE VERWENDUNG ALS LEIMUNGSMITTEL FÜR PAPIER

Title (fr)

DISPERSIONS AQUEUSES D'ALKYLDICETENE ET LEUR UTILISATION COMME COLLE D'ENCOLLAGE POUR PAPIER

Publication

EP 0858529 B1 20020731 (DE)

Application

EP 96937229 A 19961025

Priority

- DE 19540998 A 19951103
- EP 9604638 W 19961025

Abstract (en)

[origin: US6001166A] PCT No. PCT/EP96/04638 Sec. 371 Date May 4, 1998 Sec. 102(e) Date May 4, 1998 PCT Filed Oct. 25, 1996 PCT Pub. No. WO97/17491 PCT Pub. Date May 15, 1997 Aqueous alkyldiketene dispersions comprising an alkyldiketene, cationic starch having an amylopectic content of at least 95% by weight and as anionic dispersants (a) from 0.05 to 1.0% by weight of ligninsulfonic acid, condensates of naphthalenesulfonic acid and formaldehyde, sulfonated polystyrene, salts and mixtures of said polymers and (b) from 0.05 to 1.5% by weight of sulfuric monoesters of alcohols having at least 10 carbon atoms, phosphoric monoesters or diesters of alcohols having at least 10 carbon atoms, sulfuric monoesters of alkoxylated alcohols having at least 10 carbon atoms, phosphoric monoesters or diesters of alkoxylated alcohols having at least 10 carbon atoms, C12-C30-alkylsulfonic acids, salts and mixtures of said compounds can be used as body size in the manufacture of paper, paperboard and cardboard and for making cellulose fibers hydrophobic.

IPC 1-7

D21H 17/72; **D21H 21/16**

IPC 8 full level

C07C 45/90 (2006.01); **C07C 49/88** (2006.01); **C09K 23/00** (2022.01); **D06M 13/13** (2006.01); **D06M 15/11** (2006.01); **D21H 17/17** (2006.01); **D21H 21/16** (2006.01); **D21H 17/09** (2006.01); **D21H 17/10** (2006.01); **D21H 17/23** (2006.01); **D21H 17/29** (2006.01)

CPC (source: EP US)

D06M 13/13 (2013.01 - EP US); **D06M 15/11** (2013.01 - EP US); **D21H 17/72** (2013.01 - EP US); **D21H 21/16** (2013.01 - EP US); **D21H 17/09** (2013.01 - EP US); **D21H 17/10** (2013.01 - EP US); **D21H 17/17** (2013.01 - EP US); **D21H 17/23** (2013.01 - EP US); **D21H 17/29** (2013.01 - EP US)

Designated contracting state (EPC)

AT DE FI FR SE

DOCDB simple family (publication)

US 6001166 A 19991214; AT E221594 T1 20020815; CA 2231541 A1 19970515; CA 2231541 C 20050405; DE 19540998 A1 19970507; DE 59609517 D1 20020905; EP 0858529 A1 19980819; EP 0858529 B1 20020731; WO 9717491 A1 19970515

DOCDB simple family (application)

US 6802598 A 19980504; AT 96937229 T 19961025; CA 2231541 A 19961025; DE 19540998 A 19951103; DE 59609517 T 19961025; EP 9604638 W 19961025; EP 96937229 A 19961025