

Title (en)

THE USE OF MODIFIED STARCH PRODUCTS AS RETENTION AGENTS IN THE PRODUCTION OF PAPER

Title (de)

VERWENDUNG VON MODIFIZIERTEN STÄRKEPRODUKTEN ALS RETENTIONSMITTEL BEI DER PAPIERHERSTELLUNG

Title (fr)

UTILISATION D'AMIDONS MODIFIES EN TANT QU'AGENTS DE RETENTION DANS LA FABRICATION DE PAPIER

Publication

**EP 1102894 B1 20021023 (DE)**

Application

**EP 99938266 A 19990715**

Priority

- DE 19832241 A 19980717
- EP 9905054 W 19990715

Abstract (en)

[origin: WO0004229A1] The invention relates to the use of modified starches as retention agents for pigments, inorganic fillers and fines in the production of paper. Said modified starches are obtained by decomposing starch, starch derivatives and/or breakdown products thereof in aqueous solution in the presence of at least one cationic polymer made up of at least 20 wt. % polymerised, protonised or quarternised dialkylaminoalkyl(meth)acrylic acid amide units and at least one inorganic mineral substance.

IPC 1-7

**D21H 17/69**

IPC 8 full level

**D21H 17/24** (2006.01); **D21H 17/69** (2006.01); **D21H 21/10** (2006.01); **D21H 17/28** (2006.01); **D21H 17/37** (2006.01)

CPC (source: EP)

**D21H 21/10** (2013.01); **D21H 17/28** (2013.01); **D21H 17/37** (2013.01)

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**WO 0004229 A1 20000127**; AT E226663 T1 20021115; AU 5283599 A 20000207; BR 9912832 A 20010502; CA 2336660 A1 20000127; CN 1309737 A 20010822; DE 19832241 A1 20000127; DE 59903194 D1 20021128; EP 1102894 A1 20010530; EP 1102894 B1 20021023; JP 2002520510 A 20020709; NO 20010286 D0 20010117; NO 20010286 L 20010117

DOCDB simple family (application)

**EP 9905054 W 19990715**; AT 99938266 T 19990715; AU 5283599 A 19990715; BR 9912832 A 19990715; CA 2336660 A 19990715; CN 99808782 A 19990715; DE 19832241 A 19980717; DE 59903194 T 19990715; EP 99938266 A 19990715; JP 2000560317 A 19990715; NO 20010286 A 20010117