

Title (en)
IMPROVED COMPOSITION AND PROCESSES FOR PAPER PRODUCTION

Title (de)
VERBESSERTE ZUSAMMENSETZUNG UND VERFAHREN ZUR PAPIERHERSTELLUNG

Title (fr)
COMPOSITION AMELIOREE ET PROCEDES DE PRODUCTION DE PAPIER

Publication
EP 1866477 B1 20170726 (EN)

Application
EP 06740857 A 20060407

Priority

- US 2006013479 W 20060407
- US 10231805 A 20050408
- US 71847505 P 20050919
- US 72184705 P 20050929
- US 38749906 A 20060323

Abstract (en)
[origin: WO2006110751A1] Compositions and processes that preserve and enhance the brightness and improve color of pulp or paper when applied during different stages of the papermaking process are identified. The composition and method maintains and/or enhances brightness, prevent yellowing, and enhances the performance of paper products. Used in combination with optical brighteners and/or chelants the described agents produce a synergistic effect not previously identified in the paper process.

IPC 8 full level
D21C 9/10 (2006.01); **D21C 9/00** (2006.01); **D21H 17/09** (2006.01); **D21H 21/30** (2006.01)

CPC (source: EP KR NO)
D21C 9/00 (2013.01 - KR); **D21C 9/004** (2013.01 - NO); **D21C 9/10** (2013.01 - NO); **D21C 9/1042** (2013.01 - NO); **D21C 9/1047** (2013.01 - NO); **D21C 9/1084** (2013.01 - EP NO); **D21H 5/0005** (2013.01 - KR); **D21H 17/09** (2013.01 - EP NO); **D21H 17/15** (2013.01 - NO); **D21H 21/30** (2013.01 - EP NO); **D21H 21/32** (2013.01 - KR NO); **D21H 23/00** (2013.01 - KR NO); **D21H 23/22** (2013.01 - NO); **D21C 9/004** (2013.01 - EP); **D21C 9/1042** (2013.01 - EP); **D21C 9/1047** (2013.01 - EP)

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 2006110751 A1 20061019; AR 056309 A1 20071003; AU 2006235427 A1 20061019; AU 2006235427 B2 20110203; BR PI0608006 A2 20091103; BR PI0608006 B1 20170502; CA 2601507 A1 20061019; CA 2601507 C 20130903; EP 1866477 A1 20071219; EP 1866477 A4 20100901; EP 1866477 B1 20170726; JP 2008536020 A 20080904; JP 5112291 B2 20130109; KR 101310192 B1 20130925; KR 20080006582 A 20080116; MX 2007012385 A 20080311; MY 177088 A 20200904; NO 20074836 L 20070921; NO 341227 B1 20170918; NZ 562852 A 20101224; TW 200700612 A 20070101; TW I421390 B 20140101

DOCDB simple family (application)
US 2006013479 W 20060407; AR P060101400 A 20060407; AU 2006235427 A 20060407; BR PI0608006 A 20060407; CA 2601507 A 20060407; EP 06740857 A 20060407; JP 2008505649 A 20060407; KR 20077025735 A 20060407; MX 2007012385 A 20060407; MY PI20061609 A 20060407; NO 20074836 A 20070921; NZ 56285206 A 20060407; TW 95112411 A 20060407