

Title (en)
BICOMPONENT STRENGTHENING SYSTEM FOR PAPER

Title (de)
ZWEI-KOMPONENTEN-SYSTEM MIT FESTIGENDEN EIGENSCHAFTEN FÜR PAPIER

Title (fr)
SYSTEME DE RENFORCEMENT A DEUX CONSTITUANTS POUR PAPIER

Publication
EP 1579071 B1 20080716 (EN)

Application
EP 03776430 A 20031017

Priority
• US 0332848 W 20031017
• US 32547302 A 20021220

Abstract (en)
[origin: US2004118540A1] The present invention is directed to a bicomponent strengthening system and the paper webs produced with the bicomponent strengthening system. Through use of the strengthening system, paper webs may be produced in which the strength characteristics of the web may be specifically tailored. The first component of the system comprises a polymer having at least about 1.5 m-eq primary amine functionality per gram of polymer and a molecular weight of at least about 10,000 Daltons. The second component may be either a polymeric anionic compound or a polymeric aldehyde functional compound. For example, the polyamine polymer component may be a polyvinylamine or polysaccharide having primary amine functionality. In one embodiment, the second component may be a cationic polymeric aldehyde functional compound. For example, the second component may be a cationic glyoxylated polyacrylamide. In another embodiment, the second component may be a polymeric anionic compound comprising carboxy functionality.

IPC 8 full level
D21H 17/20 (2006.01); **D21H 17/37** (2006.01); **D21H 17/42** (2006.01); **D21H 17/56** (2006.01); **D21H 21/20** (2006.01); **D21H 23/04** (2006.01); **D21H 23/10** (2006.01)

CPC (source: EP KR US)
D21H 17/20 (2013.01 - EP US); **D21H 17/37** (2013.01 - EP US); **D21H 17/42** (2013.01 - EP US); **D21H 17/56** (2013.01 - EP KR US); **D21H 17/71** (2013.01 - EP US); **D21H 21/20** (2013.01 - KR); **D21H 23/04** (2013.01 - EP KR US)

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EP3012282A1; US11685820B2; US10145067B2; US11319673B2; US10648133B2; US9920482B2; WO2016062638A1; US9702086B2; US9840810B2; US11525211B2; WO2011090672A1; US8894817B1; EP3124695A1; US10351996B2; WO2012100156A1; US8636875B2; WO2015108751A1; US9567708B2; US9951475B2

Designated contracting state (EPC)
DE FR GB IT SE

DOCDB simple family (publication)
US 2004118540 A1 20040624; AU 2003284250 A1 20040729; AU 2003284250 B2 20090709; CA 2508813 A1 20040722; DE 60322263 D1 20080828; EP 1579071 A1 20050928; EP 1579071 B1 20080716; KR 101029658 B1 20110415; KR 20050084166 A 20050826; US 2006065380 A1 20060330; WO 2004061235 A1 20040722

DOCDB simple family (application)
US 32547302 A 20021220; AU 2003284250 A 20031017; CA 2508813 A 20031017; DE 60322263 T 20031017; EP 03776430 A 20031017; KR 20057010155 A 20031017; US 0332848 W 20031017; US 28110905 A 20051117