

Title (en)

POLYMER AND USE THEREOF IN THE PRODUCTION OF PAPER AND BOARD

Title (de)

POLYMER UND SEINE VERWENDUNG BEI DER HERSTELLUNG VON PAPIER UND PAPPE

Title (fr)

POLYMERES ET SON UTILISATION DANS LA PRODUCTION DE PAPIER ET DE CARTON

Publication

**EP 1392919 B1 20100303 (EN)**

Application

**EP 02771660 A 20020520**

Priority

- FI 0200428 W 20020520
- FI 20011085 A 20010523

Abstract (en)

[origin: WO02095128A1] As additive for the production of paper and board to improve the strength of a wet web a copolymer stabilized with a cationic polysaccharide is proposed in which copolymer an acrylamide of metacrylamide, vinylic carboxyl acid and optionally other vinylic monomers are used as monomers. The wet strength of a web means the strength of a paper or board web during production at a dry solids content of 20-60%. The additive according to the invention improves, in addition to the wet strength of the web, also the surface resistance of the product. Compared to the additives of the prior art, a small relative ratio of the number of the side chains to the cationic groups is used, because a polysaccharide having a higher cationic character provides better stability.

IPC 8 full level

**D21H 17/29** (2006.01); **D21H 17/24** (2006.01); **D21H 17/37** (2006.01); **D21H 21/20** (2006.01)

CPC (source: EP US)

**D21H 17/29** (2013.01 - EP US)

Designated contracting state (EPC)

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

DOCDB simple family (publication)

**WO 02095128 A1 20021128; WO 02095128 A9 20030123**; AT E459752 T1 20100315; CA 2448113 A1 20021128; DE 60235539 D1 20100415; EP 1392919 A1 20040303; EP 1392919 B1 20100303; ES 2340840 T3 20100610; FI 113968 B 20040715; FI 20011085 A0 20010523; FI 20011085 A 20021124; PT 1392919 E 20100326; US 2004149412 A1 20040805

DOCDB simple family (application)

**FI 0200428 W 20020520**; AT 02771660 T 20020520; CA 2448113 A 20020520; DE 60235539 T 20020520; EP 02771660 A 20020520; ES 02771660 T 20020520; FI 20011085 A 20010523; PT 02771660 T 20020520; US 47813803 A 20031120