

Title (en)

Additive for production of paper.

Title (de)

Hilfsmittel für die Herstellung von Papier.

Title (fr)

Additif pour la production de papier.

Publication

**EP 0411654 A1 19910206 (EN)**

Application

**EP 90114959 A 19900803**

Priority

- JP 20034289 A 19890803
- JP 29623989 A 19891116

Abstract (en)

An additive for paper production, comprising an amphoteric polymeric electrolyte having as an essential component thereof a structural unit represented by the following general formula I: <CHEM> wherein n is an integer in the range of 1 to 5, R<1>, R<2>, and R<3> are independently hydrogen atom or an alkyl group, R<4> is hydrogen atom, an alkyl group, or a hydroxyalkyl group, and a and b are jointly relative numerals such that the a/b ratio is in the range of 0.2 to 45.0), having at least part of the amino group of said amphoteric polymeric electrolyte neutralized, and possessing a cation equivalent amount (Cv) in the range of 1.0 to 15.0 meq/g, an anion equivalent amount (Av) in the range of 0.1 to 7.0 meq/g, and a Cv/Av ratio in the range of 0.2 to 45.0.

IPC 1-7

**D21H 17/43; D21H 17/45; D21H 19/20; D21H 19/58**

IPC 8 full level

**D21H 17/37** (2006.01); **D21H 17/43** (2006.01); **D21H 17/45** (2006.01); **D21H 19/20** (2006.01)

CPC (source: EP)

**D21H 17/43** (2013.01); **D21H 17/45** (2013.01); **D21H 19/20** (2013.01)

Citation (search report)

- [A] US 3280218 A 19661018 - ENDSLEY DONALD J, et al
- [XE] EP 0387567 A2 19900919 - NIPPON CATALYTIC CHEM IND [JP]

Cited by

EP1424367A4; US6562926B1; WO0136500A1

Designated contracting state (EPC)

CH DE FR GB IT LI SE

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**EP 0411654 A1 19910206; EP 0411654 B1 19950125**; CA 2022607 A1 19910204; CA 2022607 C 19970930; DE 69016299 D1 19950309; DE 69016299 T2 19950524; JP 2790497 B2 19980827; JP H03167393 A 19910719

DOCDB simple family (application)

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