

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 B1 19950125 (EN)

Application

EP 90114959 A 19900803

Priority

- JP 20034289 A 19890803
- JP 29623989 A 19891116

Abstract (en)

[origin: EP0411654A1] 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 17/45; **D21H 17/43**; **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)

Cited by

EP1424367A4; US6562926B1; WO0136500A1

Designated contracting state (EPC)

DE GB SE

DOCDB simple family (publication)

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)

EP 90114959 A 19900803; CA 2022607 A 19900802; DE 69016299 T 19900803; JP 29623989 A 19891116