

Title (en)  
process for control of pitch deposition from pulps in papermaking systems.

Title (de)  
Verfahren für Pechkontrolle in Papierherstellungssystemen.

Title (fr)  
Procédé pour contrôler le dépôt de poix dans les systèmes pour fabriquer du papier.

Publication  
**EP 0464993 A1 19920108 (EN)**

Application  
**EP 91304199 A 19910509**

Priority  
US 54237590 A 19900622

Abstract (en)  
An improved process for controlling natural pitch deposition in pulp and papermaking aqueous systems involves the use of ampholytic polymers containing diallyl dimethyl ammonium quaternary salts and also containing (meth) acrylic acid salts and optionally containing (alkyl) acrylic acid esters or hydroxy esters. These ampholytic polymers give improved results in terms of control of natural pitch in the manufacture of pulp and paper.

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IPC 8 full level  
**D21C 9/18** (2006.01); **D21C 9/08** (2006.01); **D21H 17/37** (2006.01); **D21H 17/43** (2006.01); **D21H 17/45** (2006.01); **D21H 21/02** (2006.01)

CPC (source: EP)  
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Citation (search report)  
[A] EP 0058622 A1 19820825 - CALGON CORP [US]

Cited by  
FR2900411A1; FR2900410A1; AU2005259257B2; EP2403472A4; US5744043A; KR100403213B1; EP0586755A1; US8703655B2; US10519602B2; WO2008144383A1; WO2006003122A1; WO9616224A1; WO2007125403A1; WO0210508A1; US7407561B2; US8663612B2; WO2017007614A1; US10253214B2

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