

Title (en)

PAPER SIZING AGENT AND PAPER SIZED THEREWITH

Publication

**EP 0008761 B1 19811104 (DE)**

Application

**EP 79103153 A 19790827**

Priority

- DE 2838270 A 19780901
- DE 2856858 A 19781230

Abstract (en)

[origin: EP0008761A1] 1. Sizing agents for paper consisting of an aqueous preparation of dibasic fatty acid amides, quaternized with 0.5-1 equivalent (based on the amino groups in the basic amide) of epichlorohydrin, derived from fatty acids having melting points above 30 degrees C and amines of the general formula  $H_2N-R-(NH-R')_n-NH_2$  and/or technical mixtures thereof, wherein R and R' are identical or different and denote an alkylene radical with 2 or 3 C atoms and n has a value from 1-6, and the technical amines can contain accompanying substances in quantities of up to 80 % by weight which consist essentially of cyclic and/or branched amines, which have approximately the same technical boiling range, characterized in that the sizing agents for paper contain 0.05 to 1 % by weight (based on solids content) of an electrolyte and the quaternization is carried out in the presence of water.

IPC 1-7

**D21H 3/12; C07C 103/00**

IPC 8 full level

**D21H 17/55** (2006.01)

CPC (source: EP)

**D21H 17/55** (2013.01)

Cited by

US4530945A; US4906413A; US4833188A; EP0201761A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

**EP 0008761 A1 19800319; EP 0008761 B1 19811104**; CA 1152243 A 19830816; DE 2961254 D1 19820114; ES 483786 A1 19800516; FI 792701 A 19800302; NO 792679 L 19800304

DOCDB simple family (application)

**EP 79103153 A 19790827**; CA 334775 A 19790830; DE 2961254 T 19790827; ES 483786 A 19790831; FI 792701 A 19790830; NO 792679 A 19790816