

Title (en)

Pulping processes, extraction of lignin and composition of matter for use in such processes.

Title (de)

Aufschlussverfahren, Gewinnung von Lignin und Zusammensetzung daraus.

Title (fr)

Procédés de lessivage, extraction de lignine et composition pour ces procédés.

Publication

EP 0485150 A1 19920513 (EN)

Application

EP 91310190 A 19911105

Priority

US 60957990 A 19901106

Abstract (en)

The pulping process involves digesting vegetable matter in a digesting liquor having an effective pH, during the digesting phase, of no more than about 7; the vegetable matter is digested in the presence of a catalyst comprising electron donor moieties and hydrophobic moieties, the catalyst concentration being at least 0.05 equivalents per litre of digesting liquor. A family of catalysts, which comprise electron donor moieties and hydrophobic moieties, is provided for use in the digesting liquor. The catalysts increase the strength of sheets made from the pulp, as evidenced by increased tear strengths and, in some embodiments, increased burst strengths. The use of the catalysts produce novel pulps, and permit novel sheets to be made with the pulps, and novel lignins can be recovered from the digesting liquor.

IPC 1-7

D21C 3/20; **D21C 3/22**

IPC 8 full level

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CPC (source: EP)

D21C 3/20 (2013.01); **D21C 3/222** (2013.01)

Citation (search report)

- [Y] EP 0224470 A1 19870603 - NEUSIEDLER AG [AT]
- [A] EP 0211558 A2 19870225 - BIODYNE CHEMICALS INC [US]
- [Y] TAPPI JOURNAL. vol. 72, no. 4, April 1989, ATLANTA US pages 195 - 200; R. A. YOUNG: 'Ester pulping: a status report.'
- [A] TAPPI JOURNAL. vol. 72, no. 2, February 1989, ATLANTA US pages 135 - 142; L. PASZNER ET AL.: 'Organosolv pulping: acidic catalysis options and their effect on fiber quality and delignification.'

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