

Title (en)

Additive composition and process for reducing anthraquinone requirements in pulping of lignocellulosic material

Title (de)

Zusatzzusammensetzung und Verfahren zur Reduktion von Anthraquinonbedarf bei der Auflösung von lignozellulosischen Substanzen

Title (fr)

Composition d'additive et procédé pour la réduction de la demande d'anthraquinone dans des matériaux lignocellulosiques

Publication

EP 0864689 A3 19990616 (EN)

Application

EP 98400568 A 19980311

Priority

- US 81437597 A 19970311
- US 81468097 A 19970311

Abstract (en)

[origin: EP0864689A2] An improved preliminary aid composition and process for delignification of lignocellulosic raw material, such as wood chips, for the production of cellulose pulps for use in the manufacture of paper or paperboard are disclosed wherein the wood chips are treated in a closed reaction vessel with an alkaline pulping liquor with an amount of a cyclic keto compound, such as anthraquinone, included therein for achievement of a determined pulp yield, wherein the improvement comprises a reduction in the amount of anthraquinone required to achieve said yield by the addition to said alkaline pulping liquor, in addition to a reduced amount of the anthraquinone, a surfactant mixture comprising at least one alkyl alcohol alkoxylate and at least one polyoxyalkylene glycol ether of an ester of an acid selected from the group consisting of ricinoleic acid and 12-hydroxystearic acid.

IPC 1-7

D21C 3/22; C07C 50/18; C07C 43/11

IPC 8 full level

D21C 3/22 (2006.01)

CPC (source: EP)

D21C 3/222 (2013.01)

Citation (search report)

- [AD] US 5298120 A 19940329 - BLACKSTONE MICHAEL [US]
- [A] US 5032224 A 19910716 - AHLUWALIA MADHU R [US]
- [AD] US 4481073 A 19841106 - SAKAI KAZUAKI [JP], et al
- [A] DATABASE WPI Section Ch Week 8204, Derwent World Patents Index; Class A97, AN 82-06736E, XP002100591
- [A] DATABASE WPI Section Ch Week 9410, Derwent World Patents Index; Class A97, AN 94-080431, XP002100592

Cited by

EP2082093A4; WO2008058003A2

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 0864689 A2 19980916; **EP 0864689 A3 19990616**; CA 2231313 A1 19980911; CA 2231313 C 20040629; NO 980659 D0 19980217; NO 980659 L 19980914; TW 402652 B 20000821

DOCDB simple family (application)

EP 98400568 A 19980311; CA 2231313 A 19980305; NO 980659 A 19980217; TW 87114856 A 19980907