

Title (en)

INHIBITION OF PULP AND PAPER YELLOWING USING HYDROXYLAMINES AND OTHER COADDITIVES

Title (de)

VERHINDERUNG DER VERGILBUNG VON HOLZSTOFF UND PAPIER UNTER ANWENDUNG VON HYDROXYLAMINE UND ANDEREN CO-ADDITIVEN

Title (fr)

ENRAIEMENT DU JAUNISSEMENT DE PULPE DE PAPIER ET DE PAPIER A L'AIDE D'HYDROXYLAMINES ET D'AUTRES CO-ADDITIFS

Publication

EP 1131483 A1 20010912 (EN)

Application

EP 99953767 A 19991011

Priority

- EP 9907594 W 19991011
- US 17701698 A 19981022
- US 23425399 A 19990120
- US 11668899 P 19990120

Abstract (en)

[origin: WO0024963A1] Pulps or papers, especially chemimechanical or thermomechanical pulps or papers, which still contain lignin, have enhanced resistance to yellowing when they contain an effective stabilizing amount of a N,N-dialkylhydroxylamine, an ester, amide or thio substituted N,N-dialkylhydroxylamine or N,N-dibenzylhydroxylamine or an ammonium salt thereof. This performance is often further enhanced by the presence of one or more coadditives selected from the group consisting of the UV absorbers, the polymeric inhibitors, the nitrones, the fluorescent whitening agents and metal chelating agents. Combinations of hydroxylamines or their salts, benzotriazole or benzophenone UV absorbers and a metal chelating agent are particularly effective. N,N-Diethylhydroxylamine and N,N-dibenzylhydroxylamine and their acid salts are surprisingly effective for this purpose.

IPC 1-7

D21C 9/00; **D21H 21/14**; **D21H 17/07**

IPC 8 full level

C09K 15/20 (2006.01); **D21C 9/00** (2006.01); **D21H 11/08** (2006.01); **D21H 17/00** (2006.01); **D21H 17/07** (2006.01); **D21H 17/63** (2006.01); **D21H 21/14** (2006.01); **D21H 21/32** (2006.01)

CPC (source: EP)

D21C 9/005 (2013.01); **D21H 21/143** (2013.01); **D21H 17/07** (2013.01)

Citation (search report)

See references of WO 0024963A1

Cited by

US9745700B2

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 0024963 A1 20000504; AT E253662 T1 20031115; AU 1034600 A 20000515; AU 754737 B2 20021121; BR 9914721 A 20010710; CA 2346211 A1 20000504; CN 1324419 A 20011128; DE 69912633 D1 20031211; DE 69912633 T2 20040923; EP 1131483 A1 20010912; EP 1131483 B1 20031105; JP 2002528657 A 20020903; RU 2222654 C2 20040127

DOCDB simple family (application)

EP 9907594 W 19991011; AT 99953767 T 19991011; AU 1034600 A 19991011; BR 9914721 A 19991011; CA 2346211 A 19991011; CN 99812516 A 19991011; DE 69912633 T 19991011; EP 99953767 A 19991011; JP 2000578513 A 19991011; RU 2001113262 A 19991011