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(54) **Alkaline-peroxide-oxygen treatment for unbleached and chlorinated chemical pulps.**

(57) There are provided improvements relating to the delignification and/or the bleaching of a chemical pulp wherein the cellulosic material is simultaneously treated with an alkali compound, a peroxygen compound and an oxygen gas at partial pressure in the presence of a viscosity protecting catalyst.

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EP 86 30 4123

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
X	US-A-3 719 552 (C.E. FARLEY et al.) * Whole document * ---	1-4,10	D 21 C 9/10
X	ABSTRACT BULLETIN OF THE INSTITUTE OF PAPER CHEMISTRY, vol. 54, no. 3, September 1983, page 305, abstract no. 2775, Appleton, Wisconsin, US; H. KRUGER et al.: "Bleaching of sulfite pulps with peroxide and oxygen - possibilities and limitations", & TAPPI INT. SULFITE PULPING CONF. (TORONTO) PROC.: 143-148(OCT. 20-22, 1982)(Cat. D,X) * Whole abstract * ---	1,3,10	
X	EP-A-0 087 553 (DEGUSSA) * Whole document * ---	1,3,4,10	
P,X	US-A-4 568 420 (A.J. NONNI) * Columns 1-4; example 5 * ---	1,3-5,7,10,11	
P,X	PAPIER, vol. 40, no. 4, April 1986, pages 150-153, Darmstadt, DE; H.-U. SÜSS: "Die peroxidgestützte Sauerstoff-Delignifizierung von Sulfitzellstoffen - ein Schritt zur Verringerung der AOX-Belastung" * Whole document * --- -/-	1,3-5,7-12	TECHNICAL FIELDS SEARCHED (Int. Cl.4) D 21 C
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 23-03-1988	Examiner NESTBY K.
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			



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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
P,X	ABSTRACT BULLETIN, vol. 56, no. 10, April 1986, page 1216, abstract no. 11066, Appleton, Wisconsin, US; D. LACHENAL et al.: "Reinforcement of oxygen-alkali extraction with hydrogen peroxide or hypochlorite", & TAPPI PULPING CONF. (HOLLYWOOD, FL) PROC. (BOOK 2): 439-443 (NOV. 3-7, 1985) * Whole abstract *	1,3-5,7-12	
A	US-A-3 655 505 (F.H. YORSTON et al.)		
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
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