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54 **Drainage and retention aids for newsprint furnishes.**

57 A method for improving drainage and the retention of inorganic fillers, cellulosic fines and/or pigments in the production of paper and paper-like products, especially newsprint, by the use of polymeric drainage/retention aids prepared from 75 to 99.9%, by weight, acrylamide and 25 to 0.1%, by weight, acryloyloxyethyl trimethyl ammonium chloride.



European Patent  
Office

# EUROPEAN SEARCH REPORT

Application Number

EP 88 30 0477

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-4 581 402 (W. DUNK et al.) * Claims 1,2,5-7; examples 3,6 * ---	1,2,4,6 ,7,10	D 21 H 3/38
X	US-A-4 461 866 (M.J. YANUTOLA) * Examples 1,3,8 * ---	1,2,6,7	
X	US-A-3 901 857 (G. SACKMANN et al.) * Whole document * ---	1-4,6,7 ,9,10	
X	TAPPI JOURNAL, vol. 66, no. 6, June 1983, pages 83-85, Atlanta, Georgia, US; T. LINDSTRÖM et al.: "Effects of pH and electrolyte concentration on the adsorption of cationic polyacrylamides on cellulose" * Whole article * ---	1,2,6,7	
X	ABSTRACT BULLETIN OF THE INSTITUTE OF PAPER CHEMISTRY, vol. 51, no. 10, April 1981, page 1111, abstract no. 10392, Appleton, Wisconsin, US; T. MIWA et al.: "Improvement of filler efficiency in manufacturing paper" * Whole abstract * ---	1-3,6,7 ,9,10	TECHNICAL FIELDS SEARCHED (Int. Cl.4)
A	ABSTRACT BULLETIN OF THE INSTITUTE OF PAPER CHEMISTRY, vol. 48, no. 5, November 1977, page 527, abstract no. 4846; K. SUZUKI et al.: "Preparation of cationic polymers and their applications. (6). Effect of partially aminated polyacrylamides on paper strength improvement for various pulps (especially for newsprint paper pulp)", & JAPAN TAPPI 31, no. 5: 270-274 (May 1977) * Whole abstract * ---	5,8	D 21 H
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 04-05-1988	Examiner NESTBY K.
<b>CATEGORY OF CITED DOCUMENTS</b> 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			



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)
A	US-A-3 239 496 (M.J. JURSIK)		
A	US-A-2 838 397 (I.J. GRUNTFEST et al.)		
A	GB-A-1 195 737 (NALCO CHEMICAL CO.)		
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
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Place of search THE HAGUE		Date of completion of the search 04-05-1988	Examiner NESTBY K.
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