

Title (en)  
NEUTRAL PAPER AND PROCESS FOR ITS MANUFACTURE

Publication  
**EP 0178033 A3 19870128 (EN)**

Application  
**EP 85201656 A 19851010**

Priority  
US 65936184 A 19841010

Abstract (en)  
[origin: EP0178033A2] A neutral or alkaline paper having highly uniform tone, higher bursting point and greater opacity is described. The manufacturing process consists primarily in neutralizing to a pH of 7 or more and acid mixture of fibers, sizing agents and aluminium sulphate with alkaline-earth metal oxides or hydroxides and their derivatives. The mixture so neutralized allows the use of calcium carbonate as a filler in the stock, resulting in greater ingredient retention and a lesser amount of fines in the water, this residual water being a clear water that can be recycled. The substitution of clays by calcium carbonate reduces or eliminates machinery wear. Implementation of the process does not require using additional, new or different manufacturing equipment while it implies an immediate reduction in costs.

IPC 1-7  
**D21H 3/66**; **D21D 3/00**

IPC 8 full level  
**D21H 17/62** (2006.01); **D21H 17/66** (2006.01); **D21H 17/67** (2006.01); **D21H 23/76** (2006.01)

CPC (source: EP)  
**D21H 17/62** (2013.01); **D21H 17/66** (2013.01); **D21H 17/675** (2013.01); **D21H 23/765** (2013.01)

Citation (search report)

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- [A] DE 813486 C 19510913 - BEHNKE JOHANNES
- [A] US 1803642 A 19310505 - ROBERT RAFTON HAROLD
- [X] ABSTRACT BULLETIN OF THE INSTITUTE OF PAPER CHEMISTRY, vol. 52, no. 9, March 1982, page 1050, abstract no. 9925, Appleton, Wisconsin, US; P. KRKOSKA et al.: "Optimizing rosin sizing of paper" & ZELLSTOFF PAPIER 30, no. 5:212-214 (September/October 1981)
- [X] ABSTRACT BULLETIN OF THE INSTITUTE OF PAPER CHEMISTRY, vol. 51, no. 1, July 1980, page 136, no. 1093, Appleton, Wisconsin, US: & SU - A - 711 219 (G.I. CHIZHOV et al.) 25-01-1980
- [A] ABSTRACT BULLETIN OF THE INSTITUTE OF PAPER CHEMISTRY, vol. 54, no. 11, May 1984, pages 1295,1296, abstract no. 12204, Appleton, Wisconsin, US; T. LINDSTRÖM et al.: "Studies on internal rosin sizing. (3). Effects of pH, electrolyte concentration, and concentration of calcium lignosulfonate on size retention" & SVENSK PAPPERSTID. 87, no. 3: R2-7 (22nd February 1984)
- [A] TAPPI JOURNAL, vol. 66, no. 12, December 1983, pages 68-71, Atlanta, Georgia, US; J. MARTON et al.: "Effect of fillers on rosin sizing of paper"

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Designated contracting state (EPC)  
AT BE CH DE FR GB IT LI LU NL SE

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**EP 85201656 A 19851010**; BR 8505044 A 19851010; ES 547718 A 19851009