

Title (en)
SELECTIVE RETENTION OF FILLING COMPONENTS AND IMPROVED CONTROL OF SHEET PROPERTIES BY ENHANCING ADDITIVE PRETREATMENT

Title (de)
SELEKTIVE FÜLLSTOFFRETENTION, UND VERBESSERTES KONTROL VON DEN BLATTS-EIGENSCHAFTEN.

Title (fr)
RETENTION SELECTIVE DE COMPOSANTS DE CHARGE ET MAITRISE AMELIOREE DES PROPRIETES DE LA FEUILLE PAR PRE-TRAITEMENT AU MOYEN D'ADDITIFS

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Application
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Priority
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Abstract (en)
[origin: CA2315676A1] A method for increasing retention and drainage of filling components in a paper making furnish in a paper making process comprising the steps of: making a slurry of filling components, treating the slurry with from about 0.003% to about 2.0% by weight based on total solids of a phenolic enhancer to form a pretreated filling components slurry, adding to the furnish the pretreated slurry and adding to the furnish from about 0.003 to about 0.5% by weight based on total solids in the slurry of a polymeric flocculant, whereby retention and drainage of filling components in the paper making furnish is increased. A preferred enhancer is a condensate of phenol and formaldehyde and preferred flocculants contain acrylamide, methacrylamide, and/or N-vinylformamide. The methods provide important benefits in many papermaking applications, in which desirable filling components are retained in the final sheet, while undesirable filling components, such as ink and dye particles present in a recycled papermaking furnish, are not retained.

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IPC 8 full level
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CPC (source: KR)
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• [E] WO 0060169 A1 20001012 - PULP PAPER RES INST [CA], et al
• [DA] EP 0773319 A1 19970514 - NALCO CHEMICAL CO [US]
• See references of WO 0049227A1

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