

Title (en)  
PAPERMAKING FILLER COMPOSITIONS

Publication  
**EP 0361763 A3 19911211 (EN)**

Application  
**EP 89309505 A 19890919**

Priority  
GB 8822577 A 19880926

Abstract (en)  
[origin: EP0361763A2] A composition for flocculating paper- or boardmaking filler comprises particles of starch, in aqueous suspension, and a flocculating agent, eg. a polyacrylamide. Preflocculated filler for addition to a paper- or boardmaking stock may be prepared by adding such a composition to an aqueous slurry of filler particles, eg. calcium carbonate. The use of particulate starch that is insoluble in water at temperatures normally encountered in the wet-end of a paper- or boardmaking process, in particular temperatures below 35 DEG C, obviates the need for a preliminary solubilisation step. However, the starch is soluble at temperatures encountered in the drying stage of the paper- or boardmaking process, where a starch solution is formed which is distributed through the paper matrix and imparts thereto additional strength.

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**D21H 17/72**

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**D21H 17/28** (2013.01); **D21H 17/37** (2013.01)

Citation (search report)  
• [Y] US 3640842 A 19720208 - HULLINGER CLIFFORD H, et al  
• [A] US 4210490 A 19800701 - TAYLOR JOHN H [GB]  
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• [X] TAPPI JOURNAL. vol. 67, no. 2, February 1984, ATLANTA US pages 104 - 108; A.M.SPRINGER ET AL.: 'THE INFLUENCE OF STARCH ON DRAINAGE AND RETENTION IN PAPERBOARD MILL SYSTEMS.'  
• [Y] ABSTRACT BULLETIN OF THE INSTITUTE OF PAPER CHEMISTRY. vol. 57, no. 11, May 1987, APPLETON US page 1552; O.JOKINEN ET AL.: 'INTERDEPENDENCE OF RETENTION AND FORMATION IN THE MANUFACTURE OF SUPERCALENDERED PAPER' ABSTRACT N.14120

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