

Title (en)  
Use of fine paper sized with alkyl ketene multimers in high speed precision converting or reprographic operations

Title (de)  
Verwendung von mit Alkylketenmultimeren geleimtem Feinpapier in der Hochgeschwindigkeitspräzisionsumarbeitung von Papier oder in Hochgeschwindigkeitsreprographieverfahren

Title (fr)  
Utilisation de papier fin collé de multimères d'alkyle cétène pour des opérations de transformation de précision ou de reproduction à haute vitesse

Publication  
**EP 0629741 B1 20010816 (EN)**

Application  
**EP 94304136 A 19940608**

Priority  
GB 9311944 A 19930610

Abstract (en)  
[origin: EP0629741A1] Disclosed is a process for making fine paper that is sized under alkaline conditions with a 2-oxetanone sizing agent. The sizing agent is a mixture of alkyl ketene dimer and 2-oxetanone multimers of various molecular weights, at least 50% by weight of the 2-oxetanone compounds having at least two 2-oxetanone rings. The paper can be in the form of continuous forms bond paper, adding machine paper, and reprographic paper and can also be converted into envelopes. The paper exhibits levels of sizing comparable to those obtained with current alkyl ketene dimer and alkenyl succinic anhydride sizes, and gives improved performance in high speed converting and reprographic machines.

IPC 1-7  
**D21H 17/17**

IPC 8 full level  
**G03G 7/00** (2006.01); **D21H 17/17** (2006.01); **D21H 17/46** (2006.01); **D21H 21/16** (2006.01)

CPC (source: EP KR)  
**B41M 5/0035** (2013.01 - KR); **B65D 27/00** (2013.01 - KR); **D21H 17/17** (2013.01 - EP); **D21H 21/16** (2013.01 - KR); **D21H 27/16** (2013.01 - KR); **D21H 21/16** (2013.01 - EP)

Citation (examination)  
Technical Bulletin 145S, "Specifications and Characteristics of Emery Oleochemicals", Henkel Corporation, Emery Group, May 1993

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