

Title (en)  
Process for sizing paper and sizing composition

Title (de)  
Verfahren zur Papierleimung und Leimungsmittel

Title (fr)  
Procédé de collage de papier et composition de collage

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Application  
**EP 01850198 A 20011119**

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Abstract (en)  
The present invention relates to a process for sizing paper comprising providing an aqueous suspension comprising cellulosic fibres, dewatering said aqueous suspension thereby forming a paper web, said process comprising adding to the cellulosic suspension an aqueous composition comprising particles comprising a sizing agent, the composition obtainable by mixing in any order prior to the addition to the aqueous suspension, (i) a solution comprising at least one coagulation agent, and (ii) an aqueous dispersion comprising a sizing agent, wherein the particles of the composition comprising a sizing agent have a weight average diameter of at least 5  $\mu$  m. The invention also refers to an aqueous sizing composition.

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Citation (search report)  
• [XDY] WO 0034583 A1 20000615 - HERCULES INC [US]  
• [Y] US 6159339 A 20001212 - HASSLER THORD G [US], et al  
• [X] WO 9833979 A1 19980806 - AKZO NOBEL NV [NL], et al  
• [A] US 4657946 A 19870414 - RENDE DOMINIC S [US], et al  
• [A] WO 9749865 A1 19971231 - BUCKMAN LABOR INC [US]  
• [A] EP 1099795 A1 20010516 - AKZO NOBEL NV [NL]  
• [A] US 6284099 B1 20010904 - PEUTHERER PETER [GB], et al

Cited by  
EP1862591A1; CN105940157A; RU2664513C2; US2014242308A1; US9655372B2; US10132037B2; US9359724B2; WO2013072277A3; WO2022058656A1; WO2015118227A1

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DOCDB simple family (application)  
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