

Title (en)
Production of paper.

Title (de)
Papierherstellung.

Title (fr)
Production de papier.

Publication
EP 0499448 A1 19920819 (EN)

Application
EP 92301137 A 19920211

Priority
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• GB 9201314 W 19920717

Abstract (en)
Internally sized paper is made by incorporating cationic retention aid into a cellulosic suspension to form flocs, breaking these down to microflocs, aggregating them by bentonite or other anionic polymeric material, draining the suspension and drying the resultant sheet, and the size is incorporated in the suspension as a non-ionic or anionic emulsion after the addition of the cationic retention aid.

IPC 1-7
D21H 17/16; **D21H 17/29**; **D21H 17/44**; **D21H 17/68**; **D21H 17/69**; **D21H 23/76**

IPC 8 full level
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D21H 17/16 (2013.01); **D21H 17/29** (2013.01); **D21H 17/44** (2013.01); **D21H 17/68** (2013.01); **D21H 23/14** (2013.01); **D21H 23/765** (2013.01); **D21H 21/16** (2013.01)

Citation (search report)
[A] EP 0050316 A1 19820428 - GASCOGNE PAPETERIES [FR]

Cited by
US5876563A; CN1083509C; CN105541125A; US5968316A; AU688911B2; EP1143068A3; US6395134B1; US5958188A; AU722170B2; CN1106482C; CN1112477C; CZ297546B6; US6193844B1; EP0840068A2; US6310157B1; WO9730220A1; WO9829604A1; WO9533096A1; WO2014184449A1; WO9402681A1; US6391156B1; US6284099B1; WO0134909A1; WO0134908A1; WO9731152A1; US6454902B1; US6616806B2; US6514384B1; US6824649B2; US7429309B2; US8236136B2; US8333872B2; US8475629B2; WO03074787A1; WO0056978A1; KR100499918B1

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