

Title (en)
PREFLOCCULATION OF FILLERS USED IN PAPERMAKING

Title (de)
VORAB-AUSFLOCKUNG VON FÜLLSTOFFEN IN DER PAPIERHERSTELLUNG

Title (fr)
PRÉFLOCCULATION DE CHARGES UTILISÉES DANS LA FABRICATION DE PAPIER

Publication
EP 2914774 A4 20160629 (EN)

Application
EP 13850762 A 20131018

Priority
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• US 2013065732 W 20131018

Abstract (en)
[origin: WO2014070488A1] A method of preparing a stable dispersion of flocculated filler particles for use in papermaking processes comprises use of microparticle prior to, simultaneous to, and/or after addition of a first flocculating agent to an aqueous dispersion of filler particles, followed by addition of a second flocculating agent to the dispersion and further optional shearing of the resultant filler flocs to the desired particle size resulting in shear resistant filler flocs with a defined and controllable size distribution. In addition, a neutralizing coagulant can be added to the dispersion to partially or completely neutralize the charge of the filler before the microparticle and/or the first flocculating agent is added.

IPC 8 full level
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Citation (search report)
• [XYI] US 2009267258 A1 20091029 - CHENG WEIGUO [US], et al
• [XYI] US 2012199304 A1 20120809 - CHENG WEIGUO [US], et al
• [Y] WO 9746591 A1 19971211 - WESTON FOODS LTD [AU], et al
• [A] CA 1306084 C 19920811 - GRAIN PROCESSING CORP [US]
• [A] US 4799964 A 19890124 - HARVEY RICHARD D [US], et al
• [A] DE 4436317 A1 19960418 - NALCO CHEMICAL CO [US]
• [A] EP 0534656 A1 19930331 - NALCO CHEMICAL CO [US]
• [A] EP 0261820 A1 19880330 - DU PONT [US]
• [A] EP 0050316 A1 19820428 - GASCOGNE PAPETERIES [FR]
• See references of WO 2014070488A1

Designated contracting state (EPC)
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WO 2014070488 A1 20140508; AR 093258 A1 20150527; BR 112015007883 A2 20170704; BR 112015007883 A8 20190827; BR 112015007883 B1 20220329; CA 2885582 A1 20140508; CA 2885582 C 20201027; CN 104755673 A 20150701; CN 104755673 B 20171215; EP 2914774 A1 20150909; EP 2914774 A4 20160629; JP 2015533392 A 20151124; JP 6300815 B2 20180328; KR 102134248 B1 20200715; KR 20150079932 A 20150708; TW 201439401 A 20141016; TW I487823 B 20150611

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US 2013065732 W 20131018; AR P130103938 A 20131029; BR 112015007883 A 20131018; CA 2885582 A 20131018; CN 201380057398 A 20131018; EP 13850762 A 20131018; JP 2015540693 A 20131018; KR 20157014376 A 20131018; TW 102137464 A 20131017