

Title (en)
PROCESS FOR MANUFACTURING PAPER AND BOARD

Title (de)
VERFAHREN ZUR HERSTELLUNG VON PAPIER UND PAPPE

Title (fr)
PROCÉDÉ DE FABRICATION DE PAPIER ET DE CARTON

Publication
EP 3423630 B1 20200715 (FR)

Application
EP 17707367 A 20170125

Priority
• FR 1651794 A 20160303
• FR 2017050167 W 20170125

Abstract (en)
[origin: WO2017149214A1] The present invention relates to a process for manufacturing a sheet of paper and/or board from a fibrous suspension, according to which, before the formation of said sheet, added to the fibrous suspension, at one or more injection points, are at least two retention aids respectively: (a) at least one water-soluble organic cationic polymer P1 having a cationicity greater than 2 meq.g⁻¹, and (b) at least one water-soluble amphoteric polymer P2 of at least one anionic monomer and of at least one cationic monomer. The polymer P2 is added to the fibrous suspension after dissolving, in aqueous solution, the polymer P2 previously obtained by one of the following polymerization techniques: - gel polymerization, suspension polymerization, inverse emulsion polymerization, dispersion polymerization. The polymer P2 has a factor F > 2, said factor F being defined by the formula: $F=UL^2 \times [(100-A)/(100-C)]$ with UL: Brookfield viscosity of the polymer P2 at 0.1% by weight in a 1M aqueous solution of NaCl, at 23°C, with a UL module and at 60 rev.min⁻¹, A and C corresponding respectively to the molar percentages of the anionic and cationic monomers of the polymer P2.

IPC 8 full level
D21H 17/41 (2006.01); **D21H 21/10** (2006.01); **D21H 21/18** (2006.01)

CPC (source: EP KR US)
D21H 17/41 (2013.01 - EP KR US); **D21H 17/44** (2013.01 - US); **D21H 17/45** (2013.01 - US); **D21H 17/455** (2013.01 - US);
D21H 21/10 (2013.01 - EP KR US); **D21H 21/18** (2013.01 - EP KR US); **D21H 23/04** (2013.01 - US)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2017149214 A1 20170908; BR 112018067394 A2 20190122; BR 112018067394 B1 20230131; CA 3016093 A1 20170908;
CA 3016093 C 20230725; CN 107849815 A 20180327; CN 107849815 B 20210212; EP 3423630 A1 20190109; EP 3423630 B1 20200715;
ES 2814374 T3 20210326; FR 3048436 A1 20170908; FR 3048436 B1 20180323; KR 20180122338 A 20181112; PT 3423630 T 20200727;
US 10689809 B2 20200623; US 2019048530 A1 20190214

DOCDB simple family (application)
FR 2017050167 W 20170125; BR 112018067394 A 20170125; CA 3016093 A 20170125; CN 201780001938 A 20170125;
EP 17707367 A 20170125; ES 17707367 T 20170125; FR 1651794 A 20160303; KR 20187024975 A 20170125; PT 17707367 T 20170125;
US 201716078110 A 20170125