

Title (en)  
METHOD FOR PRODUCING PAPER

Title (de)  
VERFAHREN ZUR HERSTELLUNG VON PAPIER

Title (fr)  
PROCÉDÉ DE FABRICATION DE PAPIER

Publication  
**EP 3332063 A1 20180613 (DE)**

Application  
**EP 16750742 A 20160804**

Priority  
• EP 15179980 A 20150806  
• EP 2016068622 W 20160804

Abstract (en)  
[origin: WO2017021483A1] The invention relates to a method for producing paper and cardboard, having the steps of providing an aqueous suspension containing filler, at least one water-soluble amphoteric polymer, and microparticles; adding said aqueous suspension to a paper material, dewatering the obtained paper material, thereby forming sheets in the wire section, until the dry matter content of the paper sheet is at least 18 wt. %; and subsequently pressing and drying the paper sheet. The water-soluble amphoteric polymer can be obtained by copolymerizing a monomer mixture comprising a) at least one N-vinyl carboxylic acid amide of the general formula, in which R1 and R2 independently of each other represent H or C1- to C6-alkyl, b) at least one monoethylenically unsaturated monomer with at least one free acid group or at least one acid group in salt form, c) optionally at least one monoethylenically unsaturated monomer which differs from components (a) and (b), and d) optionally at least one compound which has at least two ethylenically unsaturated double bonds in the molecule, and subsequently partly or completely hydrolyzing the groups -CO-R1 of the polymerisate, wherein the difference between the contents of the cationic and the anionic monomer units in mol.% absolutely maximally equals 10, in each case based on the total number of moles of all monomer units.

IPC 8 full level  
**D21H 17/38** (2006.01); **D21H 17/40** (2006.01); **D21H 17/41** (2006.01); **D21H 17/67** (2006.01); **D21H 21/06** (2006.01); **D21H 21/10** (2006.01); **D21H 21/20** (2006.01); **D21H 23/28** (2006.01)

CPC (source: EP US)  
**D21H 17/37** (2013.01 - US); **D21H 17/38** (2013.01 - EP US); **D21H 17/40** (2013.01 - EP US); **D21H 17/41** (2013.01 - EP US); **D21H 17/67** (2013.01 - EP US); **D21H 17/675** (2013.01 - US); **D21H 17/68** (2013.01 - US); **D21H 21/06** (2013.01 - EP US); **D21H 21/10** (2013.01 - EP US); **D21H 21/20** (2013.01 - EP US); **D21H 23/28** (2013.01 - EP US); **D21J 1/00** (2013.01 - US)

Citation (search report)  
See references of WO 2017021483A1

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

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**WO 2017021483 A1 20170209**; CN 107923127 A 20180417; CN 107923127 B 20210903; EP 3332063 A1 20180613; EP 3332063 B1 20221005; ES 2948357 T3 20230911; JP 2018523764 A 20180823; JP 6779976 B2 20201104; US 10626558 B2 20200421; US 2018216294 A1 20180802

DOCDB simple family (application)  
**EP 2016068622 W 20160804**; CN 201680045988 A 20160804; EP 16750742 A 20160804; ES 16750742 T 20160804; JP 2018506193 A 20160804; US 201615747263 A 20160804