

Title (en)

METHOD AND CHEMICAL COMPOSITIONS TO IMPROVE EFFICIENCY OF CHEMICAL PULPING

Title (de)

VERFAHREN UND CHEMISCHE ZUSAMMENSETZUNGEN ZUR VERBESSERUNG DER EFFIZIENZ VON CHEMISCHEM AUFSCHLUSS

Title (fr)

PROCÉDÉ ET COMPOSITIONS CHIMIQUES D'AMÉLIORATION DE L'EFFICACITÉ DE RÉDUCTION EN PÂTE CHIMIQUE

Publication

EP 3169843 A4 20180124 (EN)

Application

EP 15822791 A 20150710

Priority

- US 201414330958 A 20140714
- US 2015039958 W 20150710

Abstract (en)

[origin: WO2016010854A1] The invention provides methods and compositions for enhancing the digestion of pulp in a chemical pulping process. The method uses ultra-low, economically feasible dosages of BH applied right before the pulping process begins, in a stable alkaline solution fed into white liquor line, to improve the process by saving pulping chemicals, increasing pulp brightness and yield and reducing the kappa number.

IPC 8 full level

D21C 3/02 (2006.01); **D21C 3/22** (2006.01); **D21C 11/00** (2006.01); **D21H 21/32** (2006.01); **D21C 9/10** (2006.01)

CPC (source: EP RU)

D21C 3/02 (2013.01 - EP RU); **D21C 3/22** (2013.01 - EP); **D21C 9/1084** (2013.01 - EP); **D21C 11/0007** (2013.01 - EP)

Citation (search report)

- [X] US 3617431 A 19711102 - CROON INGEMAR LISS-ALBIN, et al
- [X] US 3042575 A 19620703 - CHRISTOFFER HARTLER NILS JOSEF
- [X] EP 2642020 A1 20130925 - OJI HOLDINGS CORP [JP]
- [X] CN 1769584 A 20060510 - SHANDONG INST LIGHT INDUSTRY [CN]
- [X] CA 962810 A 19750218 - VITA MAYER & C GIA F LL 1 VITA
- [X] US 2004000012 A1 20040101 - SCARPELLO JUSTIN T [NO], et al
- [A] US 3017316 A 19620116 - HOWARD RAPSON WILLIAM
- [A] EP 0652321 A1 19950510 - MORTON INT INC [US]
- [A] EP 1418269 A1 20040512 - ROHM & HAAS [US]
- [A] WO 9316227 A1 19930819 - KAMYR INC [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 2016010854 A1 20160121; BR 102014027199 A2 20160426; BR 102014027199 B1 20221004; CA 2953568 A1 20160121; CA 2953568 C 20220614; CL 2014003084 A1 20150109; CN 106536820 A 20170322; CN 106536820 B 20190705; EP 3169843 A1 20170524; EP 3169843 A4 20180124; RU 2017103170 A 20180815; RU 2017103170 A3 20181123; RU 2698735 C2 20190829

DOCDB simple family (application)

US 2015039958 W 20150710; BR 102014027199 A 20141030; CA 2953568 A 20150710; CL 2014003084 A 20141113; CN 201580038446 A 20150710; EP 15822791 A 20150710; RU 2017103170 A 20150710