

Title (en)

METHOD OF INCREASING EFFICIENCY OF CHEMICAL ADDITIVES IN PAPERMAKING SYSTEMS

Title (de)

VERFAHREN ZUR ERHÖHUNG DER EFFIZIENZ VON CHEMISCHEN ADDITIVEN IN PAPIERHERSTELLUNGSSYSTEMEN

Title (fr)

PROCÉDÉ D'AUGMENTATION DE L'EFFICACITÉ D'ADDITIFS CHIMIQUES DANS DES SYSTÈMES DE FABRICATION DE PAPIER

Publication

**EP 4237617 A1 20230906 (EN)**

Application

**EP 21887834 A 20211029**

Priority

- US 202017084895 A 20201030
- US 2021072114 W 20211029

Abstract (en)

[origin: US2021047780A1] A method of increasing chemical efficiency of chemical additives in a papermaking system includes the steps of providing thick stock pulp comprising soluble lignin, process water, and at least about 2% by weight of cellulosic fiber based on total weight of thick stock pulp, and adding at least one organic polymer to the thick stock pulp to reduce the amount of soluble lignin therein. The organic polymer is chosen from cationic polymers, non-ionic polymers and combinations thereof.

IPC 8 full level

**D21H 11/04** (2006.01); **D21H 11/08** (2006.01); **D21H 17/20** (2006.01); **D21H 17/33** (2006.01); **D21H 17/45** (2006.01); **D21H 17/55** (2006.01); **D21H 17/56** (2006.01)

CPC (source: EP KR US)

**D21C 11/0007** (2013.01 - EP KR); **D21H 11/04** (2013.01 - EP KR US); **D21H 11/08** (2013.01 - EP KR US); **D21H 17/375** (2013.01 - EP KR); **D21H 17/45** (2013.01 - EP); **D21H 17/455** (2013.01 - KR US); **D21H 17/55** (2013.01 - EP KR); **D21H 17/56** (2013.01 - EP KR); **D21H 17/66** (2013.01 - EP); **Y02W 30/64** (2015.05 - EP)

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**WO 2022094597 A1 20220505**; AU 2021369739 A1 20230622; BR 112023008253 A2 20240206; CA 3196967 A1 20220505; CL 2023001218 A1 20231201; CN 116635589 A 20230822; EP 4237617 A1 20230906; KR 20230093303 A 20230627; MX 2023005021 A 20230524

DOCDB simple family (application)

**US 2021072114 W 20211029**; AU 2021369739 A 20211029; BR 112023008253 A 20211029; CA 3196967 A 20211029; CL 2023001218 A 20230427; CN 202180083954 A 20211029; EP 21887834 A 20211029; KR 20237017425 A 20211029; MX 2023005021 A 20211029