

Title (en)

ALKALINE PEROXIDE TREATMENT OF REJECTS IN AN INTEGRATED NEUTRAL-ALKALINE PAPER MILL

Title (de)

ALKALIPEROXIDBEHANDLUNG VON ABFÄLLEN IN EINER INTEGRIERTEN NEUTRALALKALI-PAPIERFABRIK

Title (fr)

TRAITEMENT PAR PEROXYDE ALCALIN DE REJETS DANS UNE USINE INTÉGRÉE DE FABRICATION DE PAPIER NEUTRE-ALCALIN

Publication

EP 2443280 A1 20120425 (EN)

Application

EP 10789951 A 20100609

Priority

- US 2010037880 W 20100609
- US 18707309 P 20090615

Abstract (en)

[origin: WO2010147812A1] A processes producing mechanical pulps utilizing refiners for improving the quality of screen rejects, and most particularly to a mechanical pulp mill integrated with a neutral-alkaline papermaking process producing mechanical printing paper grades is disclosed. The rejects are treated with hydrogen peroxide, an alkali and an organic stabilizing agent just prior to or during refining to provide improved optical and physical properties of the refined rejects and more efficiently utilize electrical energy to reach target fiber quality after bleaching for cost-effectively producing a wide array of coated and uncoated mechanical printing papers.

IPC 8 full level

D21C 3/00 (2006.01); **D21C 9/00** (2006.01); **D21C 9/16** (2006.01)

CPC (source: EP US)

D21C 9/005 (2013.01 - EP US); **D21C 9/007** (2013.01 - EP US); **D21C 9/163** (2013.01 - EP 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 SE SI SK SM TR

DOCDB simple family (publication)

WO 2010147812 A1 20101223; CN 102459753 A 20120516; EP 2443280 A1 20120425; EP 2443280 A4 20140813; EP 2443280 B1 20201209; RU 2011142599 A 20130427; RU 2495177 C2 20131010; US 2012097350 A1 20120426

DOCDB simple family (application)

US 2010037880 W 20100609; CN 201080026450 A 20100609; EP 10789951 A 20100609; RU 2011142599 A 20100609; US 201013264206 A 20100609