

Title (en)

METHOD FOR HYDROTHERMAL CARBONIZATION OF SLUDGE IN CHEMICAL PULP MILLS

Title (de)

VERFAHREN ZUR HYDROTHERMALEN KARBONISIERUNG VON SCHLAMM IN CHEMISCHEN ZELLSTOFFFABRIKEN

Title (fr)

PROCÉDÉ DE CARBONISATION HYDROTHERMALE DE BOUES DANS DES USINES DE PÂTE CHIMIQUE

Publication

**EP 3523404 A1 20190814 (EN)**

Application

**EP 17858813 A 20170926**

Priority

- SE 1651305 A 20161005
- SE 2017050932 W 20170926

Abstract (en)

[origin: WO2018067055A1] A method and system for the treatment of sludge in a chemical pulp mill including a step of hydrothermal carbonization (HTC) of a sludge stream, wherein said sludge stream is fed into a HTC arrangement and subjected to elevated temperature and pressure, producing at least one solids fraction, at least one liquid fraction, and at least one gaseous fraction; wherein said solids fraction is fed to a power boiler of said pulp mill and burned to generate steam; said liquid fraction is combined with weak black liquor from the pulp mill and fed to a black liquor evaporator of said pulp mill, and the resulting concentrated black liquor is burned in a recovery boiler of said pulp mill.

IPC 8 full level

**C10L 9/08** (2006.01); **C02F 11/10** (2006.01); **C02F 11/13** (2019.01); **C02F 11/18** (2006.01); **D21C 11/00** (2006.01)

CPC (source: EP SE US)

**C02F 11/10** (2013.01 - SE); **C02F 11/13** (2018.12 - EP SE US); **C10L 5/403** (2013.01 - EP US); **C10L 9/086** (2013.01 - EP SE); **D21C 11/00** (2013.01 - EP SE); **C02F 11/10** (2013.01 - EP); **C02F 2103/28** (2013.01 - EP SE); **Y02E 50/10** (2013.01 - EP); **Y02E 50/30** (2013.01 - EP)

Cited by

CN113307467A

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 2018067055 A1 20180412**; BR 112019006748 A2 20190625; CL 2019000893 A1 20190802; EP 3523404 A1 20190814; EP 3523404 A4 20200617; JP 2019537674 A 20191226; SE 1651305 A1 20180406; SE 540135 C2 20180410

DOCDB simple family (application)

**SE 2017050932 W 20170926**; BR 112019006748 A 20170926; CL 2019000893 A 20190403; EP 17858813 A 20170926; JP 2019518213 A 20170926; SE 1651305 A 20161005