

Title (en)

A COOKING PROCESS USING HOT BLACK LIQUOR

Title (de)

KOCHVERFAHREN MIT HEISSER SCHWARZLAUGE

Title (fr)

PROCEDE DE CUISSON AU MOYEN DE LIQUEUR NOIRE CHAUDE

Publication

EP 1330572 A1 20030730 (EN)

Application

EP 01983617 A 20011026

Priority

- FI 0100927 W 20011026
- FI 20002421 A 20001103

Abstract (en)

[origin: WO0236876A1] This invention refers to a method for producing pulp in an alkaline digesting process comprising the following steps: charging lignocellulosic material to a digester system; pre-treating said lignocellulosic material with an impregnation liquor and subsequently with a hotter liquor containing black liquor, simultaneously displacing spent liquor; heating and cooking said lignocellulosic material to produce cooked lignocellulosic material and cooking liquor; displacing a portion of said cooking liquor at cooking temperature from said digester to a first section by supplying a washing liquid; further displacing a second portion of displaced liquor from said digester system to at least a second section by supplying further washing liquid until the temperature of said second portion of displaced liquor drops to a temperature of at least about the boiling point of said cooking liquor at atmospheric pressure, said second portion of displaced liquor having a dry solids content substantially lower than the initial dry solids content of the cooking liquor and substantially lower than that of said first portion of displaced liquor. The method is characterized in that substantial parts of said second portion of displaced liquor is heated by the heat of the first portion of displaced liquor, whereby said first portion having a high solids content is prevented from being reused in a digester and said heated second portion is further used as hot liquor in the pre-treatment and heating of said lignocellulosic material.

IPC 1-7

D21C 3/02; **D21C 3/22**

IPC 8 full level

D21C 3/02 (2006.01); **D21C 11/00** (2006.01); **D21C 11/04** (2006.01)

CPC (source: EP US)

D21C 3/02 (2013.01 - EP US); **D21C 11/0021** (2013.01 - EP US); **D21C 11/04** (2013.01 - EP US)

Citation (search report)

See references of WO 0236876A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

WO 0236876 A1 20020510; AU 1506202 A 20020515; BR 0115122 A 20030930; CA 2425381 A1 20020510; EP 1330572 A1 20030730; FI 115640 B 20050615; FI 20002421 A0 20001103; FI 20002421 A 20020504; US 2004079498 A1 20040429

DOCDB simple family (application)

FI 0100927 W 20011026; AU 1506202 A 20011026; BR 0115122 A 20011026; CA 2425381 A 20011026; EP 01983617 A 20011026; FI 20002421 A 20001103; US 41577103 A 20031022