Title (en)

A METHOD FOR PRODUCING CELLULOSE PULP IN A CONTINUOUS DIGESTER IN AN ENERGY-EFFICIENT MANNER

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES ZELLULOSEZELLSTOFF IN EINEM KONTINUERLICHEN KOCHER AUF ENERGIEEFFIZIENTE WEISE

Title (fr)

PROCÉDÉ DE PRODUCTION DE PÂTE DE CELLULOSE DANS UN DIGESTEUR CONTINU D'UNE MANIÈRE À EFFICACITÉ ÉNERGÉTIQUE

Publication

EP 1932967 B1 20100310 (EN)

Application

EP 07446011 A 20071207

Priority

SE 0602675 A 20061213

Abstract (en)

[origin: EP1932967A2] The invention describes a method for producing cellulose pulp in a continuous digestion system in an energy-efficient manner. Cellulose chips are fed continuously with a transfer liquid in a transfer line (11) to a top separator (20) arranged at the top of a digester (30), for the separation of free liquid from the cellulose chips. The top separator has a withdrawal space (21) in which free liquid collects. At least a fraction of the free liquid that has separated, with a temperature T_{ut}, is led in a return line (32) from the withdrawal space of the top separator to a position to be used as transfer liquid. At least one pressurised withdrawal of black liquor is carried out in the digester (30) essentially at the cooking temperature of at least 135 °C. The invention is characterised in that an additive liquid with a temperature T_{in} is added at the withdrawal space (21) of the top separator, where $T_{in} > T_{ut}$.

IPC 8 full level

D21C 3/00 (2006.01); **D21C 1/00** (2006.01); **D21C 3/22** (2006.01); **D21C 7/00** (2006.01); **D21C 7/14** (2006.01)

CPC (source: EP SE US)

D21C 1/00 (2013.01 - EP US); **D21C 3/00** (2013.01 - EP US); **D21C 3/22** (2013.01 - EP US); **D21C 3/24** (2013.01 - SE); **D21C 7/00** (2013.01 - EP US); **D21C 7/06** (2013.01 - SE); **D21C 7/14** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1932967 A2 20080618; **EP 1932967 A3 20090715**; **EP 1932967 B1 20100310**; AT E460533 T1 20100315; BR PI0704676 A 20080729; DE 602007005206 D1 20100422; JP 2008174892 A 20080731; JP 5140405 B2 20130206; SE 0602675 L 20070918; SE 529573 C2 20070918; US 2008210392 A1 20080904

DOCDB simple family (application)

EP 07446011 A 20071207; AT 07446011 T 20071207; BR PI0704676 A 20071213; DE 602007005206 T 20071207; JP 2007321912 A 20071213; SE 0602675 A 20061213; US 95335207 A 20071210