

Title (en)

Process for bleaching lignocellulosic pulp

Title (de)

Verfahren zum Bleichen von lignocellulosischem Zellstoff

Title (fr)

Procede de blanchiment de pate lignocellulosique

Publication

**EP 1039020 B1 20040218 (EN)**

Application

**EP 00302354 A 20000322**

Priority

- JP 7754999 A 19990323
- JP 22906899 A 19990813

Abstract (en)

[origin: EP1039020A1] Lignocellulose pulp is bleached by bleaching a pulp in aqueous alkali solution with oxygen and treating the pulp with an enzyme, while a liquid fraction delivered from the enzyme treatment step is subjected to a penetration treatment through a separation membrane, for example, reverse osmosis membrane, to separate a permeated fraction from a non-permeated fraction; the permeated fraction is fed to the alkali-oxygen bleaching (oxygen delignification) step and is used as a liquid medium of the bleaching system; and non-permeated fraction is subjected to a xylooligosaccharide-collecting procedure. <IMAGE>

IPC 1-7

**D21C 9/10**

IPC 8 full level

**D21C 5/00** (2006.01); **D21C 9/147** (2006.01); **D21C 11/00** (2006.01)

CPC (source: EP)

**D21C 5/005** (2013.01); **D21C 9/147** (2013.01); **D21C 11/0042** (2013.01)

Cited by

EP1688534A1; CN112663375A; US6685748B1; WO2006081845A1; WO0148300A1; EP3296307B1

Designated contracting state (EPC)

FI SE

DOCDB simple family (publication)

**EP 1039020 A1 20000927**; **EP 1039020 B1 20040218**; CA 2301371 A1 20000923; CA 2301371 C 20090901; CA 2627846 A1 20000923; CA 2627846 C 20110104; EP 1304412 A2 20030423; EP 1304412 A3 20030625; EP 1304412 B1 20050914

DOCDB simple family (application)

**EP 00302354 A 20000322**; CA 2301371 A 20000320; CA 2627846 A 20000320; EP 02028861 A 20000322