

Title (en)

Oxygen delignification of lignocellulosic material

Title (de)

Delignifizierung von lignocellulosischem Material mittels Sauerstoff

Title (fr)

Délicnification de matériaux lignocellulosiques avec de l'oxygène

Publication

**EP 1061173 A1 20001220 (EN)**

Application

**EP 00111891 A 20000613**

Priority

US 33098399 A 19990614

Abstract (en)

The invention configures a process for delignifying pulp wherein one stage of a two stage oxygen delignification plant is obviated. In particular, a pulp soak stage enables a pulp stream to be mixed with an alkali feed and held in residence for a sufficient period of time to allow an alkali hydrolysis leaching of colored materials from the pulp and a swelling of the pulp fibers. Next, the pulp stream is combined with an oxygen feed and is processed through a mixer. The output of the mixer is fed to a pressurized reactor where oxygen reacts with lignin of the pulp fibers. The swelled pulp fibers facilitate the oxygen reaction with lignin and removal of additional colored materials. <IMAGE>

IPC 1-7

**D21C 9/10**; **D21C 9/147**

IPC 8 full level

**D21C 9/10** (2006.01); **D21C 9/147** (2006.01)

CPC (source: EP KR)

**D21C 9/1005** (2013.01 - EP); **D21C 9/147** (2013.01 - EP KR)

Citation (search report)

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Designated contracting state (EPC)

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

DOCDB simple family (publication)

**EP 1061173 A1 20001220**; BR 0002634 A 20010102; CA 2311718 A1 20001214; CN 1277283 A 20001220; JP 2001003287 A 20010109; KR 100538083 B1 20051222; KR 20010049536 A 20010615; NO 20003014 D0 20000613; NO 20003014 L 20001215

DOCDB simple family (application)

**EP 00111891 A 20000613**; BR 0002634 A 20000613; CA 2311718 A 20000613; CN 00121746 A 20000613; JP 2000176554 A 20000613; KR 20000032341 A 20000613; NO 20003014 A 20000613