

Title (en)
METHOD OF MANUFACTURING MECHANICAL OR CHEMI-MECHANICAL PULP AND AN APPARATUS FOR MANUFACTURING THE SAME

Title (de)
VERFAHREN ZUR HERSTELLUNG EINES MECHANISCHEN ODER CHEMOMECHANISCHEN STOFFS UND VORRICHTUNG ZUR HERSTELLUNG DESSELBEN

Title (fr)
PROCEDE DE FABRICATION D'UNE PATE MECANIQUE OU CHIMICO-MECANIQUE ET APPAREIL ASSOCIE

Publication
EP 1540073 A1 20050615 (EN)

Application
EP 03761888 A 20030701

Priority
• SE 0301146 W 20030701
• SE 0202032 A 20020701

Abstract (en)
[origin: WO2004003288A1] The present invention relates to a method for manufacturing mechanical or chemi-mechanical pulp by disintegrating and treating wood material. The wood material is defibrated in a first step with a low energy input compared to conventional processes. Then the reject is screened from the defibrated wood material. The reject is then refined separately and mixed again with the rest defibrated material to a final pulp product. The invention also relates to an apparatus for manufacturing mechanical or chemi-mechanical pulp by disintegrating and treating wood based material. The apparatus comprises a defibration device (1) with a low energy input, a screening device (2) separating reject from the main part of the defibrated wood material, a reject refining device (4) and a device for (6) mixing the refined reject with the rest of the wood based material. One object of the invention is to carry out the disintegration and the refining of the pulp in such a manner, that the total energy consumption is substantially reduced relative to common practice. It is a further object of the invention to provide a method and apparatus by which it is easy to control through choice of energy inputs the characteristics of the end product by controlling the properties of the defibrated wood material through the process.

IPC 1-7
D21B 1/14

IPC 8 full level
D21B 1/12 (2006.01); **D21D 5/02** (2006.01)

CPC (source: EP)
D21B 1/12 (2013.01); **D21D 5/02** (2013.01)

Citation (search report)
See references of WO 2004003288A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2004003288 A1 20040108; AU 2003243114 A1 20040119; CA 2491533 A1 20040108; EP 1540073 A1 20050615; SE 0202032 D0 20020701

DOCDB simple family (application)
SE 0301146 W 20030701; AU 2003243114 A 20030701; CA 2491533 A 20030701; EP 03761888 A 20030701; SE 0202032 A 20020701