

Title (en)
IMPROVED MOLDED FIBER MANUFACTURING

Title (de)
VERBESSERTE FORMSTOFFASERHERSTELLUNG

Title (fr)
FABRICATION AMELIOREE DE FIBRES MOULEES

Publication
EP 1492926 B1 20070411 (EN)

Application
EP 02703036 A 20020226

Priority
SG 0200030 W 20020226

Abstract (en)
[origin: WO03074789A1] Molded fiber products using agriculture residues are economical and environmentally beneficial. Molded fiber manufacturing is different from molded pulp. The present invention discloses a method of and an apparatus for the manufacturing of molded fiber shaped body (10) using low consistency fiber slurry (12) subject to vacuum-forming and thermo-curing. The use of porous material as mold inserts for both vacuum-forming (101) and thermo-curing (102) stations provides improved productivity and enables ease of mold release. The incorporation of self-cleaning techniques further ensures consistent performance of the manufacturing system.

IPC 8 full level
D21J 3/10 (2006.01); **D21B 1/00** (2006.01); **D21H 17/16** (2006.01); **D21H 17/17** (2006.01); **D21H 21/16** (2006.01); **D21H 23/04** (2006.01); **D21J 7/00** (2006.01)

CPC (source: EP US)
D21B 1/00 (2013.01 - EP US); **D21H 17/16** (2013.01 - EP US); **D21H 17/17** (2013.01 - EP US); **D21H 21/16** (2013.01 - EP US); **D21H 23/04** (2013.01 - EP US); **D21J 7/00** (2013.01 - EP US)

Cited by
EP4079486A1; US11939129B2; WO2021133760A1; WO2021236433A1; US11654600B2; WO2018217920A1; US10428467B2; US11248348B2; US11306440B2; US11686050B2; US12031276B2; WO202223880A1

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 03074789 A1 20030912; AT E359397 T1 20070515; CN 1623022 A 20050601; DE 60219534 D1 20070524; DE 60219534 T2 20071227; EP 1492926 A1 20050105; EP 1492926 B1 20070411; US 2005150624 A1 20050714

DOCDB simple family (application)
SG 0200030 W 20020226; AT 02703036 T 20020226; CN 02828681 A 20020226; DE 60219534 T 20020226; EP 02703036 A 20020226; US 50572804 A 20040825