

Title (en)

Pulp moulding method and apparatus with forced drying

Title (de)

Verfahren und Vorrichtung zum Formen von faserhaltigen Formteilen mit Zwangstrocknung

Title (fr)

Procédé et dispositif pour le moulage de corps fibreux avec séchage forcé

Publication

EP 0745727 A2 19961204 (EN)

Application

EP 96107110 A 19960506

Priority

SG 9500579 A 19950602

Abstract (en)

The present invention provides a method of moulding a product from pulp using a mould having a male mould part presenting a moulding surface defining the shape of the moulded product and a female mould part having a mould cavity corresponding in shape to the moulding surface, which method comprises immersing the moulding surface of the male mould part in a pool of pulp, drawing a layer of pulp solids onto the moulding surface by applying suction to the moulding surface through the male mould part, inserting the male mould part into the mould cavity of the female mould part, drying the layer of pulp solids on the moulding surface by applying suction to the moulding surface through the male mould part while applying compressed air to the layer of pulp solids through the female mould part, transferring the dried moulded product from the moulding surface of the male mould part to the mould cavity of the female mould part by applying suction to the moulded product through the female mould part while applying compressed air to the moulding surface through the male mould part, withdrawing the male mould part from the mould cavity of the female mould part and discharging the moulded product from the mould cavity of the female mould part.

IPC 1-7

D21J 5/00

IPC 8 full level

D21J 1/00 (2006.01); **D21J 1/06** (2006.01); **D21J 1/12** (2006.01); **D21J 5/00** (2006.01)

CPC (source: EP)

D21J 5/00 (2013.01)

Cited by

CN103255685A; US6332956B1; CN1089833C; KR100500892B1; CN109610243A; US6461480B1; US6605187B1; US6752910B2

Designated contracting state (EPC)

DE FR GB NL

DOCDB simple family (publication)

EP 0745727 A2 19961204; **EP 0745727 A3 19970625**; CN 1143133 A 19970219; JP H09119099 A 19970506

DOCDB simple family (application)

EP 96107110 A 19960506; CN 96110091 A 19960601; JP 15926896 A 19960531