

Title (en)

METHOD AND DEVICE FOR PRODUCING WORKPIECES OR BLOCKS FROM MELTABLE MATERIALS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG VON WERKSTÜCKEN ODER BLÖCKEN AUS SCHMELZBAREN MATERIALIEN

Title (fr)

PROCEDE ET DISPOSITIF POUR LA FABRICATION DE PIECES OU DE BLOCS EN MATERIAUX FUSIBLES

Publication

EP 0996516 B1 20010829 (DE)

Application

EP 98943727 A 19980714

Priority

- DE 19730378 A 19970716
- EP 9804351 W 19980714

Abstract (en)

[origin: DE19831388A1] A liquid material in a heatable mould is solidified in an oriented manner using of a cooling unit. To control the motion of the solidification front, a cooling structure with at least one heat conduction element is introduced from below into at least one opening in a block (13) next to the mould base. The apparatus includes a cooling unit with a cooling structure (25) with at least one heat conduction element (10) which can be introduced using a drive mechanism (18) into at least one opening (17, 13a) in the block (13) next to the mould base.

IPC 1-7

B22D 27/04

IPC 8 full level

B22D 27/04 (2006.01); **B28B 1/54** (2006.01)

CPC (source: EP US)

B22D 27/045 (2013.01 - EP US)

Cited by

DE102008029951A1; US7597756B2; DE102008039457A1; DE102007038851A1; EP2028292A2

Designated contracting state (EPC)

DE FR GB NL SE

DOCDB simple family (publication)

DE 19831388 A1 19990121; DE 59801335 D1 20011004; EP 0996516 A1 20000503; EP 0996516 B1 20010829; JP 2001510095 A 20010731; US 6464198 B1 20021015; WO 9903621 A1 19990128

DOCDB simple family (application)

DE 19831388 A 19980714; DE 59801335 T 19980714; EP 9804351 W 19980714; EP 98943727 A 19980714; JP 2000502901 A 19980714; US 44531899 A 19991206