

Title (en)

METHOD FOR DETERMINING AND CONTROLLING MATERIAL FLUX OF CONTINUOUS CAST SLABS

Title (de)

VERFAHREN ZUR MATERIALFLUSSBESTIMMUNG UND -STEUERUNG VON STRANGGEGOSSENEN BRAMMEN

Title (fr)

PROCEDE POUR DETERMINER ET REGULER LE FLUX DE MATIERE POUR DES BRAMES COULEES EN CONTINU

Publication

EP 1019550 A1 20000719 (DE)

Application

EP 98958181 A 19980922

Priority

- DE 9802915 W 19980922
- DE 19744815 A 19971002

Abstract (en)

[origin: DE19744815C1] The heat content and the temperature profile of the slab are calculated by means of a mathematical-physical model, proceeding from the known temperature of the liquid phase at the mold exit, the known physical slab parameters, the convective spreading of the heat within the slab, and the time-dependent inhomogeneous heat transfer to the respective surrounding media. The calculation result, possibly in combination with the measured surface temperature, is used to control the material flow in an existing installation.

IPC 1-7

C21D 9/00; **C21D 11/00**

IPC 8 full level

B21B 1/00 (2006.01); **B22D 11/12** (2006.01); **B22D 11/16** (2006.01); **B22D 11/22** (2006.01); **C21D 9/00** (2006.01); **C21D 11/00** (2006.01); **G05B 17/02** (2006.01); **B21B 1/46** (2006.01); **B21B 37/00** (2006.01)

CPC (source: EP KR)

B22D 11/12 (2013.01 - KR); **C21D 9/0081** (2013.01 - EP); **B21B 1/466** (2013.01 - EP); **B21B 37/005** (2013.01 - EP); **C21D 11/00** (2013.01 - EP)

Citation (search report)

See references of WO 9918246A1

Designated contracting state (EPC)

AT DE ES FR GB IT NL SE

DOCDB simple family (publication)

DE 19744815 C1 19990311; AU 1432899 A 19990427; BR 9812707 A 20000822; CA 2305401 A1 19990415; CN 1094983 C 20021127; CN 1272887 A 20001108; EP 1019550 A1 20000719; JP 2001519474 A 20011023; KR 20010072534 A 20010731; TW 409083 B 20001021; WO 9918246 A1 19990415

DOCDB simple family (application)

DE 19744815 A 19971002; AU 1432899 A 19980922; BR 9812707 A 19980922; CA 2305401 A 19980922; CN 98809770 A 19980922; DE 9802915 W 19980922; EP 98958181 A 19980922; JP 2000515037 A 19980922; KR 20007003548 A 20000331; TW 87115371 A 19980915