

Title (en)

AN IMPROVED CONTINUOUS CASTING MOLD SYSTEM AND RELATED PROCESSES

Title (de)

VERBESSERTES STRANGGUSS-KOKILLEN-SYSTEM UND ENTSPRECHENDES VERFAHREN

Title (fr)

SYSTEME MOULE DE MOULAGE CONTINU AMELIORE, ET PROCESSUS Y RELATIFS

Publication

EP 1019209 B1 20041208 (EN)

Application

EP 99938971 A 19990804

Priority

- US 9917602 W 19990804
- US 13014498 A 19980806

Abstract (en)

[origin: WO0007752A1] An improved mold and process for continuous casting involves the use of a mold surface that is fabricated from a material, such as diamond, that is nonmetallic, an efficient conductor of heat and that is more degradation-resistant than the conventional materials and coatings that are used on mold surfaces. In one embodiment, the nonmetallic material is bonded to a conventional mold liner. In a second embodiment, the entire mold wall can be fabricated from the nonmetallic material. In another aspect of the invention, since materials such as diamond are transparent in the infrared range, the temperature of the outer shell of the casting can be monitored through the nonmetallic material without interfering with the casting process, and this information can be used to control one or more variables in the casting process.

IPC 1-7

B22D 11/04; **B22D 11/18**

IPC 8 full level

B22D 11/059 (2006.01); **B22D 11/16** (2006.01); **B22D 11/20** (2006.01); **B82B 1/00** (2006.01)

CPC (source: EP KR)

B22D 11/059 (2013.01 - EP KR); **B22D 11/18** (2013.01 - KR); **B22D 11/20** (2013.01 - EP)

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 0007752 A1 20000217; **WO 0007752 A9 20001005**; AT E284282 T1 20041215; AU 5334399 A 20000228; BR 9906674 A 20001107; CA 2305188 A1 20000217; CN 1275101 A 20001129; DE 69922479 D1 20050113; DE 69922479 T2 20050512; EP 1019209 A1 20000719; EP 1019209 B1 20041208; JP 2002522225 A 20020723; KR 20010024423 A 20010326

DOCDB simple family (application)

US 9917602 W 19990804; AT 99938971 T 19990804; AU 5334399 A 19990804; BR 9906674 A 19990804; CA 2305188 A 19990804; CN 99801503 A 19990804; DE 69922479 T 19990804; EP 99938971 A 19990804; JP 2000563420 A 19990804; KR 20007003671 A 20000406