

Title (en)
Process for the continuous casting of steel

Title (de)
Verfahren zum Stranggiessen von Stahl

Title (fr)
Procédé de coulée continue d'acier

Publication
EP 0951958 A1 19991027 (EN)

Application
EP 99107972 A 19990422

Priority
IT RM980258 A 19980423

Abstract (en)
In the continuous casting of steel, at the same time and in a plurality of zones of the mould different mould powders are utilised, if necessary continuously adapted to the specific instantaneous casting conditions present in said plurality of mould zones; products thus obtained are substantially free from surface defects.

IPC 1-7
B22D 11/10

IPC 8 full level
B22D 11/111 (2006.01)

CPC (source: EP)
B22D 11/111 (2013.01)

Citation (search report)

- [X] WO 9736706 A1 19971009 - MANNESMANN AG [DE], et al
- [A] FR 2558399 A1 19850726 - PONCET PIERRE [FR]
- [A] US 2824346 A 19580225 - OSBORN JR HARRY B
- [A] PATENT ABSTRACTS OF JAPAN vol. 007, no. 149 (M - 225) 30 June 1983 (1983-06-30)
- [A] LUDWIG HERING ET AL.: "UNTERSUCHUNGEN ZUR GIESSPULVERAUSWAHL BEIM BRAMMENSTRANGGIESSEN", STAHL UND EISEN, DÜSSELDORF, DE, vol. 112, no. 8, 17 August 1992 (1992-08-17), pages 61 - 65, XP000294264, ISSN: 0340-4803
- [A] JÜRGEN SARDEMAN ET AL.: "EINFLUSS DES GIESSPULVERS AUF DIE RISSBILDUNG BEIM STRANGGIESSEN VON BRAMMEN", STAHL UND EISEN, DÜSSELDORF, DE, vol. 111, no. 11, 11 November 1991 (1991-11-11), pages 39 - 46, 130, XP000261683, ISSN: 0340-4803
- [A] HORST ABRATIS ET AL.: "EINSATZ VON UNTERSCHIEDLICHEN GIESSPULVERN BEIM STRANGGIESSEN VON VORBLÖCKEN UND KNÜPPELN", STAHL UND EISEN, DÜSSELDORF, DE, vol. 116, no. 4, 15 April 1996 (1996-04-15), pages 85 - 91, XP000582435, ISSN: 0340-4803

Designated contracting state (EPC)
AT BE DE ES FI FR GB IT LU NL SE

DOCDB simple family (publication)
EP 0951958 A1 19991027; EP 0951958 B1 20031001; AT E250996 T1 20031015; DE 69911680 D1 20031106; DE 69911680 T2 20040729; ES 2210887 T3 20040701; IT RM980258 A0 19980423; IT RM980258 A1 19991023

DOCDB simple family (application)
EP 99107972 A 19990422; AT 99107972 T 19990422; DE 69911680 T 19990422; ES 99107972 T 19990422; IT RM980258 A 19980423