

Title (en)

METHOD OF PRODUCING A COOLING PLATE FOR IRON AND STEEL-MAKING FURNACES

Title (de)

VERFAHREN ZUM HERSTELLEN EINER KÜHLPLATTE FÜR ÖFEN ZUR EISEN- UND STAHLERZEUGUNG

Title (fr)

PROCEDE POUR PRODUIRE UNE PLAQUE DE REFROIDISSEMENT POUR DES FOURS DE PRODUCTION DE FER ET D'ACIER

Publication

EP 0951371 B1 20010808 (DE)

Application

EP 98904032 A 19980105

Priority

- EP 9800021 W 19980105
- LU 90003 A 19970108
- LU 90146 A 19970930

Abstract (en)

[origin: WO9830345A1] The invention concerns a method of producing a cooling plate (50, 80) with integral coolant ducts (52, 84) for an iron or steel-making furnace. A preform of the cooling plate (50, 80) is continuously cast by means of a continuous casting mould (10), rod-shaped inserts (28) in the casting duct (20) of the continuous casting mould (10) producing in this preform ducts (52, 84) which extend in the continuous casting direction and form coolant ducts in the finished cooling plate.

IPC 1-7

B22D 11/00; **C21B 7/10**

IPC 8 full level

B22D 11/00 (2006.01); **C21B 7/10** (2006.01); **F27B 1/24** (2006.01); **F27D 1/12** (2006.01); **F28D 7/00** (2006.01)

CPC (source: EP US)

B22D 11/009 (2013.01 - EP US); **C21B 7/10** (2013.01 - EP US); **F27D 1/12** (2013.01 - EP US); **F28D 7/0041** (2013.01 - EP US)

Cited by

US7204953B2

Designated contracting state (EPC)

AT BE DE ES FI FR GB IT NL SE

DOCDB simple family (publication)

WO 9830345 A1 19980716; AT E203941 T1 20010815; AU 6207198 A 19980803; BR 9806859 A 20000418; CA 2274861 A1 19980716; CA 2274861 C 20050412; CZ 242599 A3 20000712; CZ 293516 B6 20040512; DE 59801166 D1 20010913; EP 0951371 A1 19991027; EP 0951371 B1 20010808; ES 2159935 T3 20011016; JP 2001507630 A 20010612; JP 3907707 B2 20070418; PL 185392 B1 20030530; PL 334628 A1 20000313; RU 2170265 C2 20010710; US 6470958 B1 20021029

DOCDB simple family (application)

EP 9800021 W 19980105; AT 98904032 T 19980105; AU 6207198 A 19980105; BR 9806859 A 19980105; CA 2274861 A 19980105; CZ 242599 A 19980105; DE 59801166 T 19980105; EP 98904032 A 19980105; ES 98904032 T 19980105; JP 53052398 A 19980105; PL 33462898 A 19980105; RU 99116792 A 19980105; US 34105799 A 19990805