

Title (en)

INGOT MOULD WITH MULTIPLE ANGLES FOR LOADED CONTINUOUS CASTING OF METALLURGICAL PRODUCT

Title (de)

VIELECKIGE STRANGGIESSKOKILLE FÜR METALLURGISCHE PRODUKTE

Title (fr)

LINGOTIERE PLURIANGULAIRE DE COULEE CONTINUE EN CHARGE D'UN PRODUIT METALLURGIQUE

Publication

EP 1056559 B1 20030730 (FR)

Application

EP 99959484 A 19991216

Priority

- FR 9903166 W 19991216
- FR 9816055 A 19981218

Abstract (en)

[origin: US6354363B1] The invention concerns an ingot mould comprising in succession, in the direction for extracting the metallic product to be cast (7): a preheater (5) made of noncooled refractory material acting as reservoir for the melting metal to be cast and a standard cooled tubular metal element (6) for solidifying the metal. A slot (18) for injecting the shearing gas (for example Ar) is arranged between the preheater (5) and the metal element (6) so as to emerge on the ingot mold internal periphery. The injection slot comprises means (17) for reducing the gas flow in each of the ingot mold angles, preferably formed by obstructing elements. The invention enables to reduce, even eliminate, defects encountered along the edges of the solidified cast products.

IPC 1-7

B22D 11/04

IPC 8 full level

B22D 11/041 (2006.01); **B22D 11/04** (2006.01)

CPC (source: EP KR US)

B22D 11/0401 (2013.01 - EP US); **B22D 11/041** (2013.01 - KR); **B22D 11/124** (2013.01 - KR)

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)

US 6354363 B1 20020312; AT E246060 T1 20030815; BR 9908047 A 20001031; CA 2320841 A1 20000629; CN 1291122 A 20010411; CZ 20003009 A3 20011017; DE 69909974 D1 20030904; EP 1056559 A1 20001206; EP 1056559 B1 20030730; FR 2787359 A1 20000623; FR 2787359 B1 20011012; JP 2002532257 A 20021002; KR 20010034498 A 20010425; MX PA00007935 A 20030910; PL 342366 A1 20010604; RU 2211743 C2 20030910; SI 20311 A 20010228; SK 12102000 A3 20020910; TR 200002392 T1 20001221; WO 0037197 A1 20000629; WO 0037197 A8 20001012; ZA 200004013 B 20020506

DOCDB simple family (application)

US 62222800 A 20000925; AT 99959484 T 19991216; BR 9908047 A 19991216; CA 2320841 A 19991216; CN 99803091 A 19991216; CZ 20003009 A 19991216; DE 69909974 T 19991216; EP 99959484 A 19991216; FR 9816055 A 19981218; FR 9903166 W 19991216; JP 2000589295 A 19991216; KR 20007008997 A 20000817; MX PA00007935 A 19991216; PL 34236699 A 19991216; RU 2000123769 A 19991216; SI 9920019 A 19991216; SK 12102000 A 19991216; TR 200002392 T 19991216; ZA 200004013 A 20000807