

Title (en)
Mould pipe for continuous casting of metals

Title (de)
Kokillenrohr zum Stranggiessen von Metallen

Title (fr)
Tube pour lingotière de coulée continue de métaux

Publication
EP 1317978 B1 20070207 (DE)

Application
EP 02027024 A 20021203

Priority
DE 10160135 A 20011207

Abstract (en)
[origin: EP1317978A1] Mold tube has a tube wall (2) with an inner contour (3) in a beam-blank format with rounded transitions (6) between wall sections (9) delimiting a flange region (7) on one side and a web region (8) on the other side. The inner contour can be directly cooled by a cooling medium introduced from the outside. Cooling channels (4) are provided in the tube wall extending in the longitudinal direction. The distance from two cooling channels next to each other in the transitions is less than the distance in the remaining wall sections. <??>Preferred Features: A water guiding casing fitted to the tube wall is provided on the outer contour. The tube wall has a double T-shaped cross-section.

IPC 8 full level
B22D 11/055 (2006.01); **B22D 11/00** (2006.01); **B22D 11/04** (2006.01)

CPC (source: EP KR US)
B22D 11/0406 (2013.01 - EP US); **B22D 11/055** (2013.01 - EP KR US)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SI SK TR

DOCDB simple family (publication)
EP 1317978 A1 20030611; **EP 1317978 B1 20070207**; AT E353256 T1 20070215; BR 0204987 A 20040629; CA 2412202 A1 20030607; CA 2412202 C 20090825; CN 1261257 C 20060628; CN 1422714 A 20030611; DE 10160135 A1 20030618; DE 50209433 D1 20070322; DK 1317978 T3 20070604; ES 2277610 T3 20070716; JP 2003170250 A 20030617; JP 4278367 B2 20090610; KR 20030047781 A 20030618; MX PA02012104 A 20041015; PT 1317978 E 20070330; RU 2302312 C2 20070710; TW 200300713 A 20030616; TW I244952 B 20051211; US 2003106681 A1 20030612; US 2004188056 A1 20040930; US 6736202 B2 20040518; US 6942012 B2 20050913

DOCDB simple family (application)
EP 02027024 A 20021203; AT 02027024 T 20021203; BR 0204987 A 20021205; CA 2412202 A 20021119; CN 02154572 A 20021206; DE 10160135 A 20011207; DE 50209433 T 20021203; DK 02027024 T 20021203; ES 02027024 T 20021203; JP 2002344045 A 20021127; KR 20020077139 A 20021206; MX PA02012104 A 20021206; PT 02027024 T 20021203; RU 2002132960 A 20021206; TW 91135175 A 20021204; US 30110202 A 20021121; US 81963704 A 20040407