

Title (en)

DIE CASTING METHOD SYSTEM AND DIE CAST PRODUCT

Title (de)

DRUCKGUSSVERFAHREN, SYSTEM UND DRUCKGUSSPRODUKT

Title (fr)

SYSTEME ET PROCEDE DE MOULAGE SOUS PRESSION, PRODUIT COULE SOUS PRESSION

Publication

EP 1694454 A4 20070404 (EN)

Application

EP 04814468 A 20041216

Priority

- US 2004042289 W 20041216
- US 73655703 A 20031217

Abstract (en)

[origin: US2005133187A1] An embodiment in accordance with the present invention provides a method for the production of castings with incorporated tubes, where the castings are from cast metal and where the tubes are cast-in with a superheated molten metal. Multiple tubes or a plurality of designs may be incorporated into the invention. The present invention also provides a method for cooling the interior of a cast product before, during, and after the product is cast.

IPC 8 full level

B22D 19/00 (2006.01); **B22D 17/00** (2006.01)

CPC (source: EP US)

B22D 17/007 (2013.01 - EP US); **B22D 19/0072** (2013.01 - EP US)

Citation (search report)

- [X] US 4344477 A 19820817 - MIKI ISAO, et al
- [X] JP S6221453 A 19870129 - ASAHI MALLEABLE IRON CO LTD
- [X] JP S6221454 A 19870129 - ASAHI MALLEABLE IRON CO LTD
- [X] JP S5573455 A 19800603 - MIYAZAKI KEIICHIROU
- [X] FR 2708495 A1 19950210 - RENAULT [FR], et al
- [A] US 5740851 A 19980421 - HAYNES RONALD L [US]
- [A] US 2002146945 A1 20021010 - SAITO HIDEAKI [JP]
- [A] WO 0045978 A1 20000810 - OUTOKUMPU OY [FI], et al
- [A] US 1234878 A 19170731 - CORVIN JAMES F [US]
- See references of WO 2005058529A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

US 2005133187 A1 20050623; EP 1694454 A2 20060830; EP 1694454 A4 20070404; WO 2005058529 A2 20050630; WO 2005058529 A3 20050929

DOCDB simple family (application)

US 73655703 A 20031217; EP 04814468 A 20041216; US 2004042289 W 20041216