

Title (en)
PROCESS FOR THE CASTING OF MOLTEN ALLOY

Title (de)
VERFAHREN ZUM GIESSEN VON LEGIERUNGSSCHMELZE

Title (fr)
PROCEDE DE MOULAGE D UN ALLIAGE FONDU

Publication
EP 1870182 A4 20090114 (EN)

Application
EP 06731431 A 20060407

Priority
• JP 2006307484 W 20060407
• JP 2005113298 A 20050411

Abstract (en)
[origin: EP1870182A1] A novel process for the casting of molten alloy which is freed from the adverse effects brought about by the solidification of slag in drawing an ingot and can attain the inhibition of a solidified steel ingot from segregation and grain refinement and which can give a steel ingot improved in surface texture. Namely, a process for the casting of molten alloy which comprises pouring a molten alloy at a casting rate of 0.3 m/min or below into a solidification space enclosed by the inside wall of a water-cooled mold (2) and holding slag (1) therein from a container (10) holding a molten alloy (11) therein to solidify the molten alloy while forming a molten metal pool (4), and drawing an ingot (5) vertically from the bottom of the water-cooled mold depending on the pouring rate of the molten alloy, wherein a heat insulator (3) for inhibiting the extraction of heat from slag which insulator has such an inside wall shape as to form an inside wall continuous with the inside wall of the water-cooled mold is placed in the upper section of the mold.

IPC 8 full level
B22D 11/041 (2006.01); **B22D 11/00** (2006.01); **B22D 11/059** (2006.01); **B22D 11/11** (2006.01); **B22D 11/18** (2006.01)

CPC (source: EP)
B22D 11/0401 (2013.01); **B22D 11/059** (2013.01)

Citation (search report)
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• [Y] EP 0448773 A2 19911002 - NIPPON STEEL CORP [JP]
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• [A] MANGIN M ET AL: "Etude comparative d'une lingotière longue et d'une lingotière courte en coulée continue de brames", CAHIERS D'INFORMATIONS TECHNIQUES DE LA REVUE DE METALLURGIE, REVUE DE METALLURGIE. PARIS, FR, no. 2, 1 January 1985 (1985-01-01), pages 111 - 118, XP009101926, ISSN: 0035-1563
• See references of WO 2006109739A1

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Designated contracting state (EPC)
AT DE

DOCDB simple family (publication)
EP 1870182 A1 20071226; EP 1870182 A4 20090114; EP 1870182 B1 20161019; CN 101155653 A 20080402; CN 101155653 B 20111116; JP 4548483 B2 20100922; JP WO2006109739 A1 20081120; WO 2006109739 A1 20061019

DOCDB simple family (application)
EP 06731431 A 20060407; CN 200680011761 A 20060407; JP 2006307484 W 20060407; JP 2007512980 A 20060407