

Title (en)

METHOD FOR THE GALVANIC COATING OF A CONTINUOUS CASTING MOULD

Title (de)

VERFAHREN ZUR GALVANISCHEN BESCHICHTUNG EINER STRANGGIESSKOKILLE

Title (fr)

PROCEDE D'ENDUCTION GALVANIQUE D'UNE COQUILLE POUR LA COULEE CONTINUE

Publication

EP 1507612 B1 20131211 (DE)

Application

EP 03735416 A 20030519

Priority

- CH 8762002 A 20020527
- EP 0305238 W 20030519

Abstract (en)

[origin: WO03099490A1] The invention relates to a method for the galvanic coating of a continuous casting mould (2), according to which the inner surfaces (4) of said continuous casting mould (2) that delimit a mould cavity (3) are coated with a coating material to obtain or re-establish target dimensions for the mould cavity. The method uses the continuous casting mould (2) as the cathode, an anode (7) that is located in the mould cavity (3) and an electrolyte (25) that contains the coating material. The electrolyte (25) that acts as the carrier for the coating material is controlled in its passage through the mould cavity (3) of the continuous casting mould (2). During the galvanic coating process, only the inner surfaces of the mould cavity come into contact with the electrolyte and no covering of the outer surfaces of the continuous casting mould is therefore required. The mechanical characteristics can to a great extent be uniformly maintained over the entire area. Said coating can be achieved more rapidly than with conventional methods.

IPC 8 full level

C25D 5/00 (2006.01); **B22D 11/059** (2006.01); **C25D 5/18** (2006.01); **C25D 7/00** (2006.01); **C25D 7/04** (2006.01)

CPC (source: EP KR US)

B22D 11/059 (2013.01 - EP KR); **C25D 5/04** (2013.01 - EP); **C25D 5/08** (2013.01 - EP US); **C25D 5/18** (2013.01 - EP US); **C25D 7/04** (2013.01 - EP); **C25D 21/00** (2013.01 - EP); **C25D 21/10** (2013.01 - EP); **C25D 17/10** (2013.01 - EP)

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 03099490 A1 20031204; AU 2003236679 A1 20031212; AU 2003236679 B2 20080828; BR 0311374 A 20050315; BR 0311374 B1 20110823; CA 2504369 A1 20031204; CA 2504369 C 20081118; CN 100335200 C 20070905; CN 1655893 A 20050817; EP 1507612 A1 20050223; EP 1507612 B1 20131211; ES 2452727 T3 20140402; JP 2005527705 A 20050915; JP 5008111 B2 20120822; KR 101082896 B1 20111111; KR 20050004877 A 20050112; MX PA04011734 A 20051104; PL 206254 B1 20100730; PL 371684 A1 20050627; RU 2004138096 A 20050610; RU 2318631 C2 20080310; ZA 200408991 B 20070829

DOCDB simple family (application)

EP 0305238 W 20030519; AU 2003236679 A 20030519; BR 0311374 A 20030519; CA 2504369 A 20030519; CN 03812448 A 20030519; EP 03735416 A 20030519; ES 03735416 T 20030519; JP 2004507003 A 20030519; KR 20047019176 A 20030519; MX PA04011734 A 20030519; PL 37168403 A 20030519; RU 2004138096 A 20030519; ZA 200408991 A 20041105