

Title (en)

METHOD FOR MAINTAINING AND/OR REPAIRING THE SPOUT AREA OF A METALLURGICAL VESSEL

Title (de)

VERFAHREN ZUR WARTUNG UND/ODER REPARATUR DES AUSGUSSBEREICHES EINES METALLURGISCHEN GEFÄßES

Title (fr)

PROCÉDÉ D'ENTRETIEN ET/OU DE RÉPARATION DE LA ZONE DE COULÉE D'UNE CUVE MÉTALLURGIQUE

Publication

EP 2790855 A1 20141022 (DE)

Application

EP 12801536 A 20121207

Priority

- DE 102011088619 A 20111214
- EP 2012074841 W 20121207

Abstract (en)

[origin: WO2013087539A1] The invention relates to a method for maintaining and/or repairing the spout area (1) of a metallurgical vessel, wherein a substantially hollow-cylindrical sleeve (3) in a perforated brick (2) of the metallurgical vessel is removed. In order to allow the sleeve to be replaced quickly and simply in the event of wear, the method according to the invention has the following steps: a) introducing at least one radially extending slit (4) into the sleeve (3), whereby the sleeve (3) is interrupted at at least one circumferential point (5); b) reaching behind the sleeve (3) or segments (3', 3'') thereof with a pulling tool (6); c) pulling the sleeve (3) or segments (3, 3'') thereof out of the perforated brick (2); and d) inserting a new sleeve (3) or a new brick material into the perforated brick (2).

IPC 8 full level

B22D 41/00 (2006.01); **B22D 45/00** (2006.01); **C21C 5/44** (2006.01)

CPC (source: EP US)

B22D 41/001 (2013.01 - EP US); **B22D 45/00** (2013.01 - EP US); **C21C 5/445** (2013.01 - EP US); **F27D 1/1694** (2013.01 - EP US);
Y10T 29/4973 (2015.01 - EP US)

Citation (search report)

See references of WO 2013087539A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2013087539 A1 20130620; DE 102011088619 A1 20130620; EP 2790855 A1 20141022; EP 2790855 B1 20150701;
ES 2542976 T3 20150813; JP 2015500146 A 20150105; JP 5744342 B2 20150708; US 2014352122 A1 20141204

DOCDB simple family (application)

EP 2012074841 W 20121207; DE 102011088619 A 20111214; EP 12801536 A 20121207; ES 12801536 T 20121207;
JP 2014546432 A 20121207; US 201214364087 A 20121207