

Title (en)  
METHOD FOR THE SLAG-FREE REMOVAL OF MOLTEN STEEL FROM THE DISTRIBUTOR OR LADLE DURING STEEL PRODUCTION AND A VORTEX BREAKER THAT IS SUITABLE FOR SAID METHOD

Title (de)  
VERFAHREN ZUM SCHLACKEARMEN ENTNEHMEN DES FLÜSSIGSTAHLS AUS VERTEILER ODER PFANNE BEI DER STAHLERZEUGUNG UND DAFÜR GEEIGNETER STRUDELBRECHER

Title (fr)  
PROCEDE DE PRELEVEMENT AVEC PEU DE LAITIER D'ACIER LIQUIDE DU DISTRIBUTEUR OU DE LA POCHE DE COULEE LORS DE LA PRODUCTION D'ACIER ET BRISE-TOURBILLON CORRESPONDANT

Publication  
**EP 1866111 A2 20071219 (DE)**

Application  
**EP 06722688 A 20060328**

Priority  

- DE 2006000536 W 20060328
- DE 102005015049 A 20050331
- DE 202005005229 U 20050331
- DE 102005025317 A 20050602
- DE 102005027083 A 20050611
- DE 202005011220 U 20050611

Abstract (en)  
[origin: WO2006102870A2] The invention relates to a method for the slag-free removal of molten steel from distributors and ladles that are used in an aftertreatment process. During said method, the base outlets (10, 15, 16) are opened and the slag cover (8, 14) is prevented from being carried along with the metal by means of baffles (21, 22) that interrupt or significantly retard the vortices that occur in the vicinity of the base outlets (10, 15, 16). The baffles (21, 22) that are allocated to the base outlets (10, 15, 16) thus act as vortex breakers (20), so that slag cannot be carried off with the metal. The pins (41) that are provided to fix the vortex breakers (20) on or in the distributor base (24) or ladle base (25) preferably take the form of a cylinder (56).

IPC 8 full level  
**B22D 11/103** (2006.01); **B22D 43/00** (2006.01)

CPC (source: EP)  
**B22D 11/103** (2013.01); **B22D 43/001** (2013.01)

Cited by  
EP3613518A1; EP3613518B1

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 LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2006102870 A2 20061005; WO 2006102870 A3 20070111**; AT E439201 T1 20090815; DE 502006004518 D1 20090924; EA 012381 B1 20091030; EA 200702103 A1 20080630; EP 1866111 A2 20071219; EP 1866111 B1 20090812; PL 1866111 T3 20100331

DOCDB simple family (application)  
**DE 2006000536 W 20060328**; AT 06722688 T 20060328; DE 502006004518 T 20060328; EA 200702103 A 20060328; EP 06722688 A 20060328; PL 06722688 T 20060328