

Title (en)  
LADLE STEEL DEOXIDATION METHOD

Title (de)  
PFANNENSTAHLDESOXIDATIONSVERFAHREN

Title (fr)  
PROCÉDÉ DE RÉDUCTION D'ACIER DANS LA POCHÉ

Publication  
**EP 2039785 B1 20110504 (EN)**

Application  
**EP 06843948 A 20060630**

Priority  
RU 2006000344 W 20060630

Abstract (en)  
[origin: EP2039785A1] The invention relates to producing a high-quality low-carbon steel. The inventive ladle steel deoxidation method consists in introducing granulated or lump desoxidant, the density of which is less than the density of a melt in a ladle, in to a said melt. Said desoxidant is introduced during the melt pouring off a production unit into the ladle by means of a concentrated high-rate flow, the impulse of which allows the desoxidant to penetrate directly inside the melt. The desoxidant is introduced into the melt stream with the aid of a shotblast machine. The desoxidant is embodied in the form of a granulated or lump aluminium of a size ranging from 0,5 to 12,0 mm. The use of the invention makes it possible to reduce the desoxidant loss by two times, to increase the recovery thereof and to improve the metal quality.

IPC 8 full level  
**C21C 7/06** (2006.01); **C21C 7/00** (2006.01)

CPC (source: EP)  
**C21C 7/0068** (2013.01); **C21C 7/0075** (2013.01); **C21C 7/06** (2013.01)

Cited by  
CN102031335A; DE102015113241A1

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)  
**EP 2039785 A1 20090325; EP 2039785 A4 20091021; EP 2039785 B1 20110504**; AT E508210 T1 20110515; BR PI0621816 A2 20120918; BR PI0621816 B1 20150602; CN 101522922 A 20090902; CN 101522922 B 20120801; DE 06843948 T1 20091217; DE 602006021808 D1 20110616; DK 2039785 T3 20110815; EA 014276 B1 20101029; EA 200802345 A1 20090428; ES 2328895 T1 20091119; ES 2328895 T3 20111018; PL 2039785 T3 20111031; PT 2039785 E 20110817; SI 2039785 T1 20110930; WO 2008002176 A1 20080103

DOCDB simple family (application)  
**EP 06843948 A 20060630**; AT 06843948 T 20060630; BR PI0621816 A 20060630; CN 200680055177 A 20060630; DE 06843948 T 20060630; DE 602006021808 T 20060630; DK 06843948 T 20060630; EA 200802345 A 20060630; ES 06843948 T 20060630; PL 06843948 T 20060630; PT 06843948 T 20060630; RU 2006000344 W 20060630; SI 200631073 T 20060630