

Title (en)  
METHOD FOR INCREASING THE TEMPERATURE HOMOGENEITY IN A PIT FURNACE

Title (de)  
VERFAHREN ZUR ERHÖHUNG DER TEMPERATURHOMOGENITÄT IN EINEM SCHACHTOFEN

Title (fr)  
PROCÉDÉ POUR AUGMENTER L'HOMOGÉNÉITÉ DE LA TEMPÉRATURE DANS UN FOUR PIT

Publication  
**EP 2566990 B1 20150902 (EN)**

Application  
**EP 11717505 A 20110503**

Priority  
• SE 1050442 A 20100504  
• EP 2011002205 W 20110503

Abstract (en)  
[origin: WO2011138013A1] Method for increasing the temperature homogeneity in a pit furnace (200; 300), in which at least two ingots (201; 301) to be heated are caused to lean against a respective one of first and second opposite inner walls of the pit furnace (200; 300) so that the ingots (201; 301) form an elongated space (203; 303) having a V-shaped cross-section between them as seen along the first and second walls. The invention is characterised in that at least one separate lance (211, 212, 221, 222; 311, 312, 321, 322) for an oxidant with an oxygen content of at least 85 percentages by weight and at least one separate lance (210, 220; 310, 320) for fuel are caused to be arranged in a furnace wall with their orifices arranged opening out into the furnace (200; 300) at a distance from each other and so that oxidant and fuel, respectively, are caused to be supplyable to said V-shaped space (203; 303) and to be combustible therein, and in that the orifice of the lance (211, 212, 221, 222; 311, 312, 321, 322) for oxidant is caused to be arranged above the orifice of the fuel lance (210, 220; 310, 320) and to be directed so that the oxidant flows obliquely downwards and along the longitudinal direction of said V-shaped space (203; 303).

IPC 8 full level  
**C21D 9/70** (2006.01); **F27B 17/00** (2006.01); **F27D 7/02** (2006.01); **F27D 99/00** (2010.01)

CPC (source: EP KR SE US)  
**C21D 9/70** (2013.01 - EP KR SE US); **C21D 11/00** (2013.01 - KR US); **F27B 17/00** (2013.01 - EP KR SE US); **F27D 7/02** (2013.01 - EP KR US); **F27D 99/0001** (2013.01 - EP KR US); **F27D 99/0033** (2013.01 - KR)

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 2011138013 A1 20111110**; AU 2011250262 A1 20121025; AU 2011250262 B2 20140109; BR 112012028075 A2 20160802; CN 102869796 A 20130109; CN 102869796 B 20140409; EP 2566990 A1 20130313; EP 2566990 B1 20150902; JP 2013540250 A 20131031; JP 5769796 B2 20150826; KR 20130075736 A 20130705; PL 2566990 T3 20160129; RU 2012151837 A 20140610; RU 2586384 C2 20160610; SE 1050442 A1 20110426; SE 534084 C2 20110426; UA 107834 C2 20150225; US 2013209948 A1 20130815

DOCDB simple family (application)  
**EP 2011002205 W 20110503**; AU 2011250262 A 20110503; BR 112012028075 A 20110503; CN 201180022218 A 20110503; EP 11717505 A 20110503; JP 2013508395 A 20110503; KR 20127028924 A 20110503; PL 11717505 T 20110503; RU 2012151837 A 20110503; SE 1050442 A 20100504; UA A201213834 A 20110503; US 201113695630 A 20110503