Title (en)

METHOD FOR CONTROLLING THE HOMOGENEITY OF THE TEMPERATURE OF PRODUCTS IN A METALLURGICAL REHEATING FURNACE, AND REHEATING FURNACE

Title (de)

VERFAHREN ZUR STEUERUNG DER HOMOGENITÄT DER TEMPERATUR VON PRODUKTEN IN EINEM NACHWÄRMUNGSOFEN UND NACHWÄRMUNGSOFEN

Title (fr)

PROCEDE DE CONTROLE DE L HOMOGENEITE DE TEMPERATURE DES PROD UITS DANS UN FOUR DE RECHAUFFAGE DE SIDERURGIE, ET FOUR DE RECHAUFFAGE.

Publication

EP 1618347 A2 20060125 (FR)

Application

EP 04742455 A 20040407

Priority

• FR 2004000866 W 20040407
• FR 0304877 A 20030418

Abstract (en)

[origin: FR2853959A1] Control of the homogeneity of the temperature of steel products (2) in a reheat furnace (1) equipped with lateral burners is carried out by making all or none of the lateral burners function and by regulating the functioning time and stoppage of each burner to obtain the desired temperature. One chooses as the lateral burners from burners with a spread flame (B1-B4), make these burners function at a regime close to the maximum regime or at the maximum regime and the order of ignition of the burners is chosen to favour the stirring and the circulation of the fume in order to reduce the hot point of the flame and to obtain an improved homogeneity of temperature in the walls of the furnace and the products. An independent claim is also included for a furnace for reheating steel products equipped with lateral burners using this method of control.

IPC 1-7

F27B 9/36

IPC 8 full level

F27B 9/36 (2006.01)

CPC (source: EP US)

F27B 9/36 (2013.01 - EP US)

Citation (search report)

See references of WO 2004094931A2

Designated contracting state (EPC)

AT DE ES GB IT

DOCDB simple family (publication)

FR 2853959 A1 20041022; **FR 2853959 B1 20050624**; BR PI0408865 A 20060411; CA 2522816 A1 20041104; CN 1777785 A 20060524; CN 1777785 B 20100818; DE 04742455 T1 20060622; EP 1618347 A2 20060125; ES 2254049 T1 20060616; JP 2006525427 A 20061109; RU 2005135854 A 20060410; RU 2353877 C2 20090427; TW 200506303 A 20050216; TW I329729 B 20100901; UA 90085 C2 20100412; US 2006147867 A1 20060706; US 7540992 B2 20090602; WO 2004094931 A2 20041104; WO 2004094931 A3 20050506

DOCDB simple family (application)

FR 0304877 A 20030418; BR PI0408865 A 20040407; CA 2522816 A 20040407; CN 200480010443 A 20040407; DE 04742455 T 20040407; EP 04742455 A 20040407; ES 04742455 T 20040407; FR 2004000866 W 20040407; JP 2006505784 A 20040407; RU 2005135854 A 20040407; TW 93110740 A 20040416; UA A200510906 A 20040407; US 55340005 A 20051219