

Title (en)

METHOD AND APPARATUS FOR HEATING STEEL COMPONENTS IN A CONTINUOUS FURNACE

Title (de)

VERFAHREN UND VORRICHTUNG ZUM AUFHEIZEN VON STAHLBAUTEILEN IN EINEM DURCHLAUFOFEN

Title (fr)

PROCEDE ET DISPOSITIF DE CHAUFFAGE DE COMPOSANTS EN ACIER DANS UN FOUR CONTINU

Publication

EP 1954997 B1 20130109 (DE)

Application

EP 06828983 A 20061109

Priority

- EP 2006010754 W 20061109
- DE 102005057742 A 20051202

Abstract (en)

[origin: WO2007062734A1] The invention relates to a method and an apparatus for heating steel components in a continuous furnace, wherein a first transport device having an external drive (12) receives the components in a precise position and transports them through the furnace (3) in order to heat them, and a second transport device (20) receives the parts, after the heating, from the first transport device at a predetermined transfer point or transfer region and conveys them out of the furnace (3) at an increased speed and places them in a precise position at a further receiving point ready for further processing. The components are mounted on a support having engagement means for the different transport devices.

IPC 8 full level

F27B 9/20 (2006.01); **B65G 17/00** (2006.01); **C21D 9/00** (2006.01); **F27B 9/39** (2006.01); **F27D 3/12** (2006.01); **F27D 5/00** (2006.01)

CPC (source: EP KR US)

C21D 9/00 (2013.01 - KR); **C21D 9/06** (2013.01 - KR); **F27B 9/20** (2013.01 - EP KR US); **F27B 9/39** (2013.01 - EP US);
F27D 3/12 (2013.01 - EP KR US)

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

Designated extension state (EPC)

AL HR MK

DOCDB simple family (publication)

WO 2007062734 A1 20070607; BR PI0620589 A2 20111116; BR PI0620589 B1 20170328; CA 2631576 A1 20070607; CA 2631576 C 20110329;
CN 101322002 A 20081210; CN 101322002 B 20120718; DE 102005057742 B3 20070614; EP 1954997 A1 20080813;
EP 1954997 B1 20130109; ES 2407154 T3 20130612; JP 2009517544 A 20090430; KR 101052560 B1 20110801; KR 20080081302 A 20080909;
US 2009127753 A1 20090521; US 8153051 B2 20120410

DOCDB simple family (application)

EP 2006010754 W 20061109; BR PI0620589 A 20061109; CA 2631576 A 20061109; CN 200680045077 A 20061109;
DE 102005057742 A 20051202; EP 06828983 A 20061109; ES 06828983 T 20061109; JP 2008542622 A 20061109;
KR 20087015855 A 20061109; US 8562906 A 20061109