

Title (en)  
MULTI-LEVEL FURNACE

Title (de)  
OFEN MIT MEHREREN EBENEN

Title (fr)  
FOUR A ETAGES

Publication  
**EP 1754010 B1 20071017 (FR)**

Application  
**EP 05742828 A 20050413**

Priority  
• EP 2005051628 W 20050413  
• LU 91080 A 20040602

Abstract (en)  
[origin: WO2005119153A1] The inventive multi-level furnace comprises a furnace wall (10) delimiting a cylindrical space having a vertical axis (11), a plurality of beds (12, 22) defining the levels inside said cylindrical space and at least one scraping arm (16, 16'; 26, 26') which is provided with a wall scraper (20, 20', 32) and associated with the bed (12, 22) in such a way that it is rotatable about the vertical axis (11) of the furnace. During scraping arm (16, 16'; 26, 26') rotation, said wall scraper (20, 20'; 32) defines a scraped area (52; 52') on the internal surface of the furnace wall (10) which comprises a plurality of wall cavities (54; 54') forming a row of access openings (56; 56') in the scraped area (52; 52'), thereby making it possible to avoid the formation of a hardened crust adhered to the internal surface (42) of the furnace wall (10) and to develop braking shocks in the scraping arm (16, 16'; 26, 26').

IPC 8 full level  
**F27B 9/18** (2006.01); **F27D 25/00** (2010.01)

CPC (source: EP US)  
**F27B 9/185** (2013.01 - EP US); **F27D 25/001** (2013.01 - EP US)

Designated contracting state (EPC)  
DE ES FR IT PL

DOCDB simple family (publication)  
**WO 2005119153 A1 20051215**; AU 2005250591 A1 20051215; AU 2005250591 B2 20090806; BR PI0511653 A 20080102; CA 2567508 A1 20051215; CA 2567508 C 20120605; CN 100465563 C 20090304; CN 1961189 A 20070509; DE 602005002952 D1 20071129; DE 602005002952 T2 20080724; EP 1754010 A1 20070221; EP 1754010 B1 20071017; ES 2296172 T3 20080416; JP 2008501924 A 20080124; JP 4662560 B2 20110330; LU 91080 B1 20051205; PL 1754010 T3 20080229; RU 2006146614 A 20080727; RU 2365841 C2 20090827; TW 200540385 A 20051216; TW I314638 B 20090911; US 2007209563 A1 20070913; US 7735434 B2 20100615; ZA 200609602 B 20080130

DOCDB simple family (application)  
**EP 2005051628 W 20050413**; AU 2005250591 A 20050413; BR PI0511653 A 20050413; CA 2567508 A 20050413; CN 200580017877 A 20050413; DE 602005002952 T 20050413; EP 05742828 A 20050413; ES 05742828 T 20050413; JP 2007513893 A 20050413; LU 91080 A 20040602; PL 05742828 T 20050413; RU 2006146614 A 20050413; TW 94110846 A 20050406; US 57003105 A 20050413; ZA 200609602 A 20061117