

Title (en)
Shaft furnace

Title (de)
Schachtofen

Title (fr)
Four à cuve

Publication
EP 1930449 A3 20090107 (EN)

Application
EP 07023877 A 20071210

Priority
• IR 138538200 A 20061211
• DE 102006062689 A 20061221

Abstract (en)
[origin: EP1930448A2] The invention refers to a vertical shaft furnace (100) for a burden (115) moving under the influence of gravity from the top to the bottom of the shaft furnace, in particular for the production of directly reduced iron, with at least one furnace outlet (120) provided at the top of the shaft furnace, which is characterized in that the central axis of the furnace gas outlet (120) is slanted with regard to the horizontal by an angle of 45 to 55°.

IPC 8 full level
C21B 13/02 (2006.01); **F27B 1/00** (2006.01); **F27D 17/00** (2006.01)

CPC (source: EP)
C21B 13/02 (2013.01); **F27B 1/005** (2013.01); **F27B 1/16** (2013.01); **F27B 1/18** (2013.01); **F27D 17/001** (2013.01)

Citation (search report)
• [YA] GB 2016124 A 19790919 - HAMBURGER STAHLWERKE GMBH
• [YA] WO 0036159 A1 20000622 - DANIELI OFF MECC [IT]
• [YA] GB 1111251 A 19680424 - HUETTENWERK OBERHAUSEN AG
• [YA] GB 1269841 A 19720406 - MIDLAND ROSS CORP [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 MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
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EP 07023875 A 20071210; AT 07023875 T 20071210; DE 202007019169 U 20071210; DE 202007019452 U 20071210; DE 202007019472 U 20071210; DE 602007007561 T 20071210; EP 07023876 A 20071210; EP 07023877 A 20071210; ES 07023875 T 20071210; ES 07023876 T 20071210; ES 07023877 T 20071210