

Title (en)  
Shaft furnace

Title (de)  
Schachtofen

Title (fr)  
Four à cuve

Publication  
**EP 1930448 A3 20081231 (EN)**

Application  
**EP 07023875 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); **F27B 1/18** (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)  
• [X] WO 9420642 A1 19940915 - AIR LIQUIDE [FR], et al  
• [X] US 4007025 A 19770208 - HEGEMANN KARL-RUDOLF  
• [X] JP S5260204 A 19770518 - ISHIKAWAJIMA HARIMA HEAVY IND  
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Cited by  
CN109182634A; EP3535424A4; EP4127251A4; WO2018085514A1; US12084730B2

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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

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DOCDB simple family (publication)  
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