

Title (en)

Operating process for a shaft furnace and shaft furnace

Title (de)

Verfahren zum Betreiben eines Schachtofens und Schachtofen

Title (fr)

Procédé pour l'opération d'un four à cuve et four à cuve

Publication

**EP 0992753 A3 20010808 (DE)**

Application

**EP 99115252 A 19990802**

Priority

- DE 19835270 A 19980804
- DE 19860281 A 19981223

Abstract (en)

[origin: EP0992753A2] At most, n-1 out of n nozzles and/or lances, which are near-uniformly distributed on the furnace circumference, can be charged with oxygen or a gas mixture containing oxygen for purposes of delivering it into the furnace shaft.

IPC 1-7

**F27B 1/16**; **F27B 1/26**; **C22B 9/00**; **C21B 11/02**; **C21B 5/00**; **F27D 3/16**

IPC 8 full level

**C21B 5/00** (2006.01); **C21B 11/02** (2006.01); **C22B 9/00** (2006.01); **F27B 1/16** (2006.01); **F27B 1/26** (2006.01); **F27D 3/16** (2006.01)

CPC (source: EP)

**C21B 5/00** (2013.01); **C21B 11/02** (2013.01); **F27B 1/16** (2013.01); **F27B 1/26** (2013.01); **F27D 3/16** (2013.01); **F27D 7/02** (2013.01); **F27D 2003/164** (2013.01); **F27D 2003/165** (2013.01)

Citation (search report)

- [E] EP 1035221 A2 20000913 - LINDE TECH GASE GMBH [DE]
- [DA] DE 29711593 U1 19970904 - WESTFALEN AG [DE]
- [A] US 5451034 A 19950919 - ULVELING LEON [LU], et al
- [X] PATENT ABSTRACTS OF JAPAN vol. 004, no. 093 (C - 017) 5 July 1980 (1980-07-05)
- [X] PATENT ABSTRACTS OF JAPAN vol. 005, no. 031 (C - 045) 25 February 1981 (1981-02-25)

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EP1739194A1

Designated contracting state (EPC)

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DOCDB simple family (application)

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