

Title (en)

METHOD AND DEVICE FOR OPERATING A SHAFT FURNACE

Title (de)

VERFAHREN UND VORRICHTUNG ZUM BETREIBEN EINES SCHACHTOFENS

Title (fr)

PROCÉDÉ ET DISPOSITIF DESTINÉS AU FONCTIONNEMENT D'UN FOURNEAU À CUVE

Publication

EP 2407742 A1 20120118 (DE)

Application

EP 10169326 A 20100713

Priority

EP 10169326 A 20100713

Abstract (en)

Operating a shaft furnace (20), comprises supplying external energy to the shaft furnace by an extrinsic combustion of at least one solid fuel burner (10). An independent claim is also included for a device for operating a shaft furnace, in which the external energy is supplied to the shaft furnace by the extrinsic combustion, comprising at least one solid fuel burner located at shaft furnace circumference.

Abstract (de)

Verfahren zum Betreiben eines Schachtofens bei dem durch eine extrinsische Verbrennung dem Schachtofen Fremdenergie zugeführt wird, wobei die extrinsische Verbrennung mittels eines Feststoffbrenners durchgeführt wird.

IPC 8 full level

C21B 5/00 (2006.01); **F23D 17/00** (2006.01); **F27B 1/16** (2006.01)

CPC (source: EP)

C21B 5/003 (2013.01); **C21B 7/163** (2013.01); **C21B 13/023** (2013.01); **F23D 1/00** (2013.01); **F23D 17/005** (2013.01); **F23K 3/02** (2013.01); **F27B 1/16** (2013.01)

Citation (applicant)

DE 4310931 A1 19941006 - AIR PROD GMBH [DE], et al

Citation (search report)

- [XI] DE 4310931 A1 19941006 - AIR PROD GMBH [DE], et al
- [XI] DE 19539634 A1 19970430 - FEUSTEL HANS ULRICH [DE], et al
- [XI] DE 19646802 A1 19980514 - MESSER GRIESHEIM GMBH [DE]
- [XI] DE 3806710 A1 19890914 - WALTER BRINKMANN GMBH [DE]
- [XI] US 4523530 A 19850618 - KAMINAKA MOTOFUMI [JP], et al

Cited by

EP3183369B1; CN112683047A; CN113265497A; CN114739160A; WO2015036241A1; US10472689B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)

BA ME RS

DOCDB simple family (publication)

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DOCDB simple family (application)

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