

Title (en)

Blast furnace plant and method of operating heating stoves in a blast furnace plant

Title (de)

Hochofenanlage und Verfahren zum Betrieb von Heizöfen in einer Hochofenanlage

Title (fr)

Installation d'un haut-fourneau et procédé de fonctionnement de poêles chauffantes dans une telle installation

Publication

EP 1961828 A1 20080827 (EN)

Application

EP 07300804 A 20070221

Priority

EP 07300804 A 20070221

Abstract (en)

The invention relates to the operation of a hot stove for supplying hot blast to a blast furnace (22), whereby the hot stove is heated during an on-gas phase and is thereafter used to heat cold blast and to supply hot blast to a blast furnace (22) during its on-blast phase. According to the invention, pressurized gas supplied by an air separation unit (23) is accumulated in buffer means (25) and the accumulated pressurized gas is used in the pressurization of the hot stove between the on-gas phase and the on-blast phase.

IPC 8 full level

C21B 9/00 (2006.01); **F25J 3/04** (2006.01)

CPC (source: EP)

C21B 9/00 (2013.01); **F25J 3/04557** (2013.01); **F25J 3/04593** (2013.01); **F25J 2290/62** (2013.01)

Citation (search report)

- [X] US 3143412 A 19640804 - ROBINSON JR MELVILLE W, et al
- [A] DE 2159570 A1 19730607 - KOPPERS GMBH HEINRICH
- [A] WO 9940304 A1 19990812 - TEXACO DEVELOPMENT CORP [US], et al
- [A] FR 2860286 A1 20050401 - AIR LIQUIDE [FR]
- [A] US 2685181 A 19540803
- [DA] CAPOGROSSO L ET AL: "OPTIMISING OXYGEN ENRICHMENT TO BLAST FURNACES USING COAL INJECTION", STEEL TIMES INTERNATIONAL, DMG WORLD MEDIA, LEWES, GB, vol. 27, no. 2, February 2003 (2003-02-01), pages 20,22 - 23, XP001168585, ISSN: 0143-7798

Cited by

FR2954459A1

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 NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1961828 A1 20080827; WO 2008101812 A1 20080828

DOCDB simple family (application)

EP 07300804 A 20070221; EP 2008051510 W 20080207