

Title (en)

Gas-tight industrial furnace supplied with protecting gas, in particular chamber furnace, pusher type furnace or ring hearth furnace

Title (de)

Gasdichter schutzgasbegaster Industrieofen, insbesondere Kammerofen, Durchstossofen, Drehherdofen oder Ringherdofen

Title (fr)

Four industriel étanche au gaz de protection, notamment four à chambre, four poussant, four à sole tournante ou four à sole annulaire

Publication

EP 2717008 A3 20170823 (DE)

Application

EP 13004751 A 20131002

Priority

DE 102012019653 A 20121008

Abstract (en)

[origin: EP2717008A2] The industrial furnace (1.1) comprises an inlet lock (2) that is sealed from the environment by a first gastight closure unit. A second gastight closure unit is arranged between a heat treatment chamber and a quenching device. The gas pressure of the protective gas is maintained in the heat treatment chamber during loading and discharging of the charge (5). The quenching device is formed with an output gate so that the heat treatment chamber is locked separately through the second gastight closure unit.

IPC 8 full level

F27B 9/04 (2006.01); **F27B 9/16** (2006.01); **F27B 9/22** (2006.01); **F27B 17/00** (2006.01); **F27D 7/06** (2006.01); **F27D 15/02** (2006.01)

CPC (source: EP US)

F27B 9/045 (2013.01 - EP US); **F27B 9/047** (2013.01 - EP US); **F27B 9/16** (2013.01 - EP US); **F27B 9/22** (2013.01 - EP US); **F27B 13/06** (2013.01 - EP US); **F27B 17/0033** (2013.01 - EP US); **F27D 3/00** (2013.01 - EP US); **F27D 7/06** (2013.01 - EP US); **F27D 15/0286** (2013.01 - EP US); **F27D 99/0073** (2013.01 - EP US); **F27D 2009/0089** (2013.01 - EP US)

Citation (search report)

- [X] EP 0088995 A1 19830921 - BBC BROWN BOVERI & CIE [DE]
- [X] EP 1488181 B1 20070711 - LOI THERMPROCESS GMBH [DE]
- [X] EP 0735149 A1 19961002 - IPSEN IND INT GMBH [DE]
- [X] US 5402994 A 19950404 - EGGER HELMUT [DE]
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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 RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

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DOCDB simple family (application)

EP 13004751 A 20131002; CN 201310453249 A 20130929; DE 102012019653 A 20121008; JP 2013208190 A 20131003; US 201314048793 A 20131008