

Title (en)

DEVICE AND METHOD FOR LOADING AND UNLOADING A REHEATING FURNACE

Title (de)

VORRICHTUNG UND VERFAHREN ZUM LADEN UND ENTLADEN EINES AUFWÄRMOFENS

Title (fr)

DISPOSITIF ET PROCÉDÉ POUR L'ENFOURNEMENT ET LE DÉFOURNEMENT DANS UN FOUR DE RÉCHAUFFAGE

Publication

EP 3009778 A4 20160608 (EN)

Application

EP 14810703 A 20140514

Priority

- ES 201330873 A 20130612
- ES 2014070399 W 20140514

Abstract (en)

[origin: EP3009778A1] The invention relates to a device and method for loading and unloading a reheating furnace (4) comprising a plurality of beams (1) for supporting products (2), a roller conveyor (9) for transferring the billet (6) to be loaded to a position facing the furnace, and a loading push rod arranged on the exterior of said furnace and provided with a plurality of fingers (7). Said device is characterised in that the entrance to the furnace (4) is provided with a rotating door (14) which is leak-tight and which rotates in relation to a cooled shaft (15), said rotating door (14) having a cylindrical cross-section with a cut-out angular sector (16) designed to receive the billet (6) to be loaded into the furnace.

IPC 8 full level

F27D 3/12 (2006.01); **B65G 47/82** (2006.01); **C21D 9/00** (2006.01); **F27B 9/20** (2006.01); **F27B 9/22** (2006.01); **F27B 9/38** (2006.01); **F27B 9/39** (2006.01); **F27D 1/18** (2006.01); **F27D 3/00** (2006.01)

CPC (source: EP ES)

C21D 9/0018 (2013.01 - EP); **C21D 9/0081** (2013.01 - EP); **F27B 9/20** (2013.01 - EP); **F27B 9/22** (2013.01 - EP); **F27B 9/38** (2013.01 - EP); **F27B 9/39** (2013.01 - EP); **F27D 1/1858** (2013.01 - EP); **F27D 3/00** (2013.01 - ES); **F27D 3/0024** (2013.01 - EP); **F27D 3/026** (2013.01 - EP); **F27D 3/04** (2013.01 - EP)

Citation (search report)

- [I] JP S5983716 A 19840515 - NIPPON STEEL CORP, et al
- [I] FR 2449863 A2 19800919 - HEURTEY METALLURGIE
- [I] US 4397600 A 19830809 - JACUBOWIEZ ISIDORE [FR]
- [A] JP S59190316 A 19841029 - KAWASAKI STEEL CO
- [A] JP S60234918 A 19851121 - NIPPON STEEL CORP
- [A] JP S60234917 A 19851121 - NIPPON STEEL CORP
- See references of WO 2014198977A1

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

DOCDB simple family (publication)

EP 3009778 A1 20160420; EP 3009778 A4 20160608; ES 2425304 A1 20131014; ES 2425304 B2 20140505; WO 2014198977 A1 20141218

DOCDB simple family (application)

EP 14810703 A 20140514; ES 201330873 A 20130612; ES 2014070399 W 20140514