

Title (en)

FURNACE CHAMBER GRATE FOR BURNERS FUELED WITH PELLETS AND OTHER SOLID FUELS

Title (de)

OFENKAMMERROST FÜR MIT PELLETS UND ANDEREN FESTEN BRENNSTOFFEN BEFEUERTE BRENNER

Title (fr)

GRILLE DE CHAMBRE DE FOUR POUR BRÛLEURS ALIMENTÉS AVEC DES GRANULÉS ET D'AUTRES COMBUSTIBLES SOLIDES

Publication

**EP 3376105 A1 20180919 (EN)**

Application

**EP 18460017 A 20180312**

Priority

PL 42081517 A 20170314

Abstract (en)

The object of the present invention is a segmented burner furnace chamber grate whose entire surface is formed by a series of movable grate bars connected using any known method, with inlet ventilation holes, loosely fitted by means of a mounting assembly, positioned one next to another to form sections (sectors), at least two of which are mechanically driven and repeatedly move in a reciprocating fashion. According to the invention, the grate bars forming the grate (1) are in the form of plates (2a, 2b, 2c ... 2n), each in the shape of a prism or a truncated pyramid with a rectangular base, while one edge of each plate is fitted with a coupling protrusion (tongue) (5), and its parallel edge is fitted with a groove (6) whose shape matches that of the coupling protrusion (tongue) (5) of a neighboring plate (2), thus enabling joining the plates (2a, 2b, 2c ... 2n) in a jigsaw-puzzle fashion, to form rows (R1, R2, R3, R4, .... Rn), and while the other two parallel edges of each plate are smooth and loosely fitted to form longitudinal expansion gaps (7) between plate surfaces.

IPC 8 full level

**F23H 17/00** (2006.01); **F23B 30/10** (2006.01)

CPC (source: EP)

**F23B 30/10** (2013.01); **F23H 17/00** (2013.01)

Citation (applicant)

- PL 67681 Y1 20150331 - SAS MIECZYŚLAW ZAKŁAD METALOWO KOTLARSKI SAS [PL]
- PL 398958 A1 20121203 - DZIUBELA ROBERT PRZED WIELOBRANZOWE DEFRO [PL]
- WO 9616306 A1 19960530 - WEDEL KARL VON [DE]
- PL 179002 B1 20000731 - WEDEL KARL VON [DE]

Citation (search report)

- [Y] US 5895213 A 19990420 - SUTOH KANZABURO [JP], et al
- [Y] US 6196143 B1 20010306 - POST JOSEPH R [US]
- [Y] GB 983890 A 19650217 - VON ROLL AG
- [A] EP 2985527 A1 20160217 - PELLASX SPÓŁKA Z O O SPÓŁKA KOMANDYTOWA [PL]
- [A] US 4537139 A 19850827 - ESSER ANTON [DE]
- [A] US 1559048 A 19251027 - PACKARD JAMES A
- [A] WO 03008863 A1 20030130 - JANZER MICHAEL [DE]

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 3376105 A1 20180919**; **EP 3376105 B1 20230104**; PL 232801 B1 20190731; PL 420815 A1 20180924

DOCDB simple family (application)

**EP 18460017 A 20180312**; PL 42081517 A 20170314