

Title (en)

GRATE BLOCK FOR A COMBUSTION GRATE

Title (de)

ROSTBLOCK FÜR EINEN VERBRENNUNGSROST

Title (fr)

BLOC DE GRILLE POUR UNE GRILLE DE COMBUSTION

Publication

EP 3308078 B1 20201202 (DE)

Application

EP 15729437 A 20150612

Priority

EP 2015063146 W 20150612

Abstract (en)

[origin: WO2016198119A1] The invention relates to a grate block (10) for a combustion grate, in which consecutive grate blocks are arranged one over the other in the manner of a staircase and are designed to rearrange and convey the combustible material during combustion by means of pushing motions performed in relation to each other. The grate block (10) comprises a block body (12), which is formed as a casting and comprises an upper wall (14), which forms a supporting surface (16), which extends at least partially parallel to a longitudinal axis L of the block body and along which the combustible material should be conveyed and the end of which that is foremost in the pushing direction S forms a margin (19), by means of which the supporting surface (16) drops into a pushing surface (22) formed by a front wall (20). The front wall (20) has at least one air supply opening (38) for supplying air to the combustion grate, which air supply opening extends at a right angle or at a slant to the pushing surface (22) when viewed in a longitudinal section. In the lowest region (32) of the front wall, the front wall has the form of a foot (34), which is intended to lie on the supporting surface of a grate block that is adjacent in the pushing direction (S). At least the front resting edge (23) of the pushing surface (22) is arranged in a plane E extending substantially at a right angle to the longitudinal axis L. The grate block is characterized in that the margin (19) is frontally offset from the plane E in the longitudinal direction and in the pushing direction S.

IPC 8 full level

F23H 3/02 (2006.01); **F23H 3/04** (2006.01); **F23H 7/08** (2006.01)

CPC (source: EP KR RU US)

F23H 3/02 (2013.01 - RU); **F23H 3/04** (2013.01 - EP KR US); **F23H 7/08** (2013.01 - EP KR US); **F23H 17/12** (2013.01 - RU US); **F23H 2700/009** (2013.01 - US)

Citation (examination)

JP H10267250 A 19981009 - HITACHI SHIPBUILDING ENG CO

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

DOCDB simple family (publication)

WO 2016198119 A1 20161215; AU 2015398478 A1 20180118; AU 2015398478 B2 20210701; CA 2989062 A1 20161215; CA 2989062 C 20220802; CN 107850302 A 20180327; CN 107850302 B 20200904; EP 3308078 A1 20180418; EP 3308078 B1 20201202; EP 3798515 A1 20210331; EP 3798515 B1 20230823; EP 3798515 C0 20230823; ES 2856765 T3 20210928; ES 2964850 T3 20240409; JP 2018517113 A 20180628; JP 6734302 B2 20200805; KR 102320060 B1 20211101; KR 20180017146 A 20180220; MX 2017015819 A 20180801; MY 189420 A 20220210; PL 3308078 T3 20210614; PL 3798515 T3 20240219; RU 2673020 C1 20181121; US 10760787 B2 20200901; US 2018347811 A1 20181206

DOCDB simple family (application)

EP 2015063146 W 20150612; AU 2015398478 A 20150612; CA 2989062 A 20150612; CN 201580080798 A 20150612; EP 15729437 A 20150612; EP 20207797 A 20150612; ES 15729437 T 20150612; ES 20207797 T 20150612; JP 2017563922 A 20150612; KR 20187000955 A 20150612; MX 2017015819 A 20150612; MY PI2017704631 A 20150612; PL 15729437 T 20150612; PL 20207797 T 20150612; RU 2018100618 A 20150612; US 201515735910 A 20150612