

Title (en)
GRID PLATE

Title (de)
GITTERPLATTE

Title (fr)
PLAQUE DE GRILLE

Publication
EP 2577203 B1 20200401 (FR)

Application
EP 11718383 A 20110506

Priority
• BE 201000339 A 20100603
• EP 2011057320 W 20110506

Abstract (en)
[origin: WO2011151130A1] The present invention relates to a grid plate for the transporting and cooling of very hot materials leaving a furnace, said plate having cavities of rectangular shape, the largest dimension being perpendicular to the direction of advance of the materials, the cross section of these cavities being triangular with a fin-shaped bottom terminating in a turned-up end of reverse slope, the slope (a) of the cavities being between 10° and 45°, preferably between 20° and 30°, to the horizontal and the reverse slope (β) of the turned-up end making an angle equal to or up to 6° less than the angle of the slope of the cavities. The flow of material under gravity through the air injection slits is interrupted. Any contact of the material with the framework and with the mechanism of the equipment is avoided.

IPC 8 full level
F27D 15/02 (2006.01)

CPC (source: EP KR US)
F27D 5/0006 (2013.01 - KR); **F27D 15/02** (2013.01 - KR); **F27D 15/0206** (2013.01 - KR); **F27D 15/022** (2013.01 - EP US);
F27D 2005/0081 (2013.01 - KR)

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 2011151130 A1 20111208; BE 1019360 A3 20120605; BR 112012030758 A2 20161101; BR 112012030758 B1 20210119;
CA 2799422 A1 20111208; CA 2799422 C 20171219; CL 2012003225 A1 20130308; CN 102939508 A 20130220; CN 102939508 B 20160413;
EP 2577203 A1 20130410; EP 2577203 B1 20200401; ES 2791777 T3 20201105; HU E049179 T2 20200928; JP 2013533451 A 20130822;
JP 5738402 B2 20150624; KR 101812364 B1 20171226; KR 20130111933 A 20131011; MX 2012014020 A 20130124; MX 344393 B 20161213;
MY 173425 A 20200123; PL 2577203 T3 20201102; PT 2577203 T 20200511; RU 2012148622 A 20140720; RU 2556799 C2 20150720;
US 2013130188 A1 20130523; US 9677816 B2 20170613; ZA 201208909 B 20130731

DOCDB simple family (application)
EP 2011057320 W 20110506; BE 201000339 A 20100603; BR 112012030758 A 20110506; CA 2799422 A 20110506;
CL 2012003225 A 20121120; CN 201180027202 A 20110506; EP 11718383 A 20110506; ES 11718383 T 20110506;
HU E11718383 A 20110506; JP 2013512809 A 20110506; KR 20127031656 A 20110506; MX 2012014020 A 20110506;
MY PI2012005197 A 20110506; PL 11718383 T 20110506; PT 11718383 T 20110506; RU 2012148622 A 20110506;
US 201113700900 A 20110506; ZA 201208909 A 20121126