

Title (en)

Grate plate and its fabrication process

Title (de)

Rostplatte sowie Verfahren zur Herstellung einer Rostplatte

Title (fr)

Plaque de grille et procédé pour sa fabrication

Publication

EP 0811818 B2 20071121 (DE)

Application

EP 97107556 A 19970507

Priority

DE 19622636 A 19960605

Abstract (en)

[origin: EP0811818A1] The grid plate provides a controlled gas distribution into a gravity fed material flow eg. in cement manufacture. The abrasive material flows over a grid plate (6) which is made of abrasion resistant steel, or is coated with an abrasion resistant layer. Slots (7) in the grid plate distribute the gas flow into the material for a good heat exchange effect. The grid plate is supported on a frame (5) with inner reinforcing ribs. The reinforcing ribs of the support frame are L-shaped with their upper edges supporting the underside of the grid plate and with their profiles forming gas ducts to the gas slots. The grid plate is easily replaced when worn.

IPC 8 full level

F27D 15/02 (2006.01); **F23H 7/08** (2006.01); **F23H 17/00** (2006.01); **F23H 17/12** (2006.01); **F27B 21/02** (2006.01)

CPC (source: EP US)

F27D 15/022 (2013.01 - EP US); **F27B 21/02** (2013.01 - EP US); **Y10T 29/496** (2015.01 - EP US)

Citation (opposition)

Opponent :

DE 2905233 A1 19800814 - FREIER FRITZ

Cited by

CN114787559A; DE10113516A1; US6926521B2; WO2013091633A1

Designated contracting state (EPC)

BE DE DK ES FR GB IT

DOCDB simple family (publication)

EP 0811818 A1 19971210; **EP 0811818 B1 20010816**; **EP 0811818 B2 20071121**; DE 19622636 A1 19971211; DE 59704275 D1 20010920; DK 0811818 T3 20011112; DK 0811818 T4 20080414; ES 2161395 T3 20011201; ES 2161395 T5 20080316; US 5947719 A 19990907; US 6266883 B1 20010731; ZA 974141 B 19971209

DOCDB simple family (application)

EP 97107556 A 19970507; DE 19622636 A 19960605; DE 59704275 T 19970507; DK 97107556 T 19970507; ES 97107556 T 19970507; US 35075199 A 19990709; US 85753297 A 19970516; ZA 974141 A 19970514