

Title (en)

Radiant gas burner with burner plate of fibre material and reduced noise generation

Title (de)

Gasstrahlungsbrenner mit einer Brennerplatte aus Fasermaterial und reduzierter Geräuschentwicklung

Title (fr)

Brûleur radiant à gaz avec plaque de brûleur en matériau fibreux et production réduite de bruit

Publication

**EP 0778442 A3 19981230 (DE)**

Application

**EP 96115758 A 19961002**

Priority

DE 19545504 A 19951206

Abstract (en)

[origin: EP0778442A2] The mixer pipe conveys the mixture of gas and air to the combustion chamber (3). The gas flow is regulated by a control. A fan introduces the air. The burner plate (1) made of fibrous material is joined to the combustion chamber housing not only along the edges. But in the middle and at points, lines and in circles. At most 50% of the total surface of the burner plate is joined to the housing. The burner plate is joined indirectly to the housing by means of bridging material made of ceramic, fibre ceramic, glass or metal, by sticking at least one contact surface between the burner plate, material and housing.

IPC 1-7

**F23D 14/16**

IPC 8 full level

**F23D 14/02** (2006.01); **F23D 14/16** (2006.01)

CPC (source: EP US)

**F23D 14/16** (2013.01 - EP US); **F23D 2203/105** (2013.01 - EP US); **F23D 2210/00** (2013.01 - EP US); **F23D 2212/103** (2013.01 - EP US); **F23D 2212/201** (2013.01 - EP US)

Citation (search report)

- [XY] US 5306140 A 19940426 - SMITH THOMAS M [US]
- [Y] US 5114284 A 19920519 - KEIZER GREGORY J [US], et al

Cited by

CN113864781A

Designated contracting state (EPC)

AT DE ES FR GB IT

DOCDB simple family (publication)

**EP 0778442 A2 19970611**; **EP 0778442 A3 19981230**; **EP 0778442 B1 20040922**; AT E277328 T1 20041015; DE 19545504 A1 19970612; DE 59611094 D1 20041028; ES 2229249 T3 20050416; JP H09178122 A 19970711; US 5800157 A 19980901

DOCDB simple family (application)

**EP 96115758 A 19961002**; AT 96115758 T 19961002; DE 19545504 A 19951206; DE 59611094 T 19961002; ES 96115758 T 19961002; JP 32570796 A 19961205; US 76099196 A 19961205