

Title (en)

Gas radiant heater

Title (de)

Gasbeheizter Wärmestrahler

Title (fr)

Dispositif de chauffage par rayonnement chauffé à gaz

Publication

EP 1077348 A1 20010221 (DE)

Application

EP 00121839 A 19961019

Priority

- DE 29516643 U 19951021
- EP 96116842 A 19961019

Abstract (en)

The heating gases are conducted along a converter (24) which has conductor ducts (27) open at the bottom. The converter has a structured surface providing a heat exchange surface at least double, preferably quadruple, the size of the active radiation surface. The converter consists of a ridged plate with downward pointing ridges (26) with ridges at least double the height of the thickness of the plate between the ridges. The converter is contained in a hood (10) open at the bottom and under which the heating gases from the burner (15) are conducted. The burner has a burner chamber (16) running along one edge (14) of the elongated hood. The heating gases flow crosswise to the hood's lengthwise direction and flow out at the opposite edge (23). The hood's outside has thermal insulation (11) with at least parts of the inside acting as a reflector surface. The burner has a burner pipe (19) with gas outlets (20) and longer than the burner chamber which has an outlet (18).

Abstract (de)

Der Wärmestrahler weist eine nach unten offene Haube (10) auf, in der ein Konverter (24) angeordnet ist. An einem Rand (14) der Haube (10) ist ein Brenner (15) angeordnet, dessen Heizgase durch den Konverter (24) strömen und diesen aufheizen. Der Konverter wandelt die ihm zugeführte Wärme in Eigenstrahlung um und strahlt diese nach unten ab. Der Brenner (15) kann als atmosphärischer Brenner betrieben werden. Der Wärmestrahler hat einen hohen Wirkungsgrad und ist leichtgewichtig und kostengünstig herstellbar. <IMAGE>

IPC 1-7

F23D 14/12; F24C 3/04

IPC 8 full level

F23D 14/12 (2006.01); **F24C 1/10** (2006.01); **F24C 3/04** (2006.01); **F24C 15/22** (2006.01)

CPC (source: EP)

F23D 14/125 (2013.01); **F23D 14/151** (2021.05); **F24C 3/042** (2013.01)

Citation (search report)

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- [X] US 4702693 A 19871027 - FRAIOLI JOSEPH [US]
- [X] US 4432727 A 19840221 - FRAIOLI JOSEPH [US]
- [Y] US 4727854 A 19880301 - JOHNSON ARTHUR C W [US]
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Cited by

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Designated contracting state (EPC)

AT BE CH DE DK FR GB LI NL SE

DOCDB simple family (publication)

DE 29516643 U1 19970220; AT E200567 T1 20010415; AT E250202 T1 20031015; DE 59606754 D1 20010517; DE 59610724 D1 20031023; EP 0769658 A1 19970423; EP 0769658 B1 20010411; EP 1077348 A1 20010221; EP 1077348 B1 20030917

DOCDB simple family (application)

DE 29516643 U 19951021; AT 00121839 T 19961019; AT 96116842 T 19961019; DE 59606754 T 19961019; DE 59610724 T 19961019; EP 00121839 A 19961019; EP 96116842 A 19961019