

Title (en)
Infrared rays emitter with a catalytic burner

Title (de)
Infrarotstrahler mit einem katalytischen Brenner

Title (fr)
Emetteur de rayons infrarouges à brûleur catalytique

Publication
EP 0754911 A3 19980603 (FR)

Application
EP 96420083 A 19960314

Priority
US 50494695 A 19950720

Abstract (en)
[origin: US5586877A] An infrared ray emitter with catalytic burner including a box having an opening covered by a catalytic structure and wherein a supply of combustion gas is applied adjacent the catalytic structure and a supply of recirculating gas is introduced into the box by a fan driven by a motor which extends exteriorly from a furnace in which the emitter is mounted. Brackets are provided to mount the box within a furnace in such a manner that the emitter may be angularly adjusted with respect to the support brackets.

IPC 1-7
F23D 14/18; **F23D 14/36**; **F23C 5/06**

IPC 8 full level
B05D 3/02 (2006.01); **B05C 9/14** (2006.01); **F23C 5/06** (2006.01); **F23D 14/18** (2006.01); **F23G 7/06** (2006.01); **F23G 7/07** (2006.01)

CPC (source: EP US)
F23C 5/06 (2013.01 - EP US); **F23D 14/18** (2013.01 - EP US); **F23G 7/07** (2013.01 - EP US); **F26B 3/305** (2013.01 - EP US);
F26B 23/024 (2013.01 - EP US)

Citation (search report)
• [A] GB 2249491 A 19920513 - ADVANCED CERAMICS LTD [IE]
• [A] DE 3916890 A1 19891207 - HAGOS KACHELOFEN LUFTHEIZBAUER [DE]
• [A] US 5203315 A 19930420 - CLAWSON LAWRENCE G [US], et al
• [A] "NATURAL GAS IN INDUSTRY: Paint baking by means of catalytic radiant heaters", GAZ DE FRANCE (INDUSTRIAL AND INTERNATIONAL AFFAIRS), no. 82, 1986, PARIS (FR), pages 1 - 4, XP002060175
• [A] PATENT ABSTRACTS OF JAPAN vol. 006, no. 086 (M - 131) 25 May 1982 (1982-05-25)

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CN110979871A; WO2015107296A1; US9789514B2; WO2013174383A1

Designated contracting state (EPC)
AT BE DE ES FR GB IE IT NL SE

DOCDB simple family (publication)
US 5586877 A 19961224; AT E210798 T1 20011215; DE 69617822 D1 20020124; DE 69617822 T2 20020814; EP 0754911 A2 19970122; EP 0754911 A3 19980603; EP 0754911 B1 20011212; JP 3098187 B2 20001016; JP H0929156 A 19970204

DOCDB simple family (application)
US 50494695 A 19950720; AT 96420083 T 19960314; DE 69617822 T 19960314; EP 96420083 A 19960314; JP 11519096 A 19960402