

Title (en)
GAS DISTRIBUTING AND INFRA-RED RADIATING BLOCK ASSEMBLY

Publication
EP 0419459 A4 19920325 (EN)

Application
EP 88906429 A 19880617

Priority
US 8802085 W 19880617

Abstract (en)
[origin: WO8912784A1] A radiant burner assembly for a gas fired infrared burner has a first block (24) of permeable material for transporting and distributing a mixture of combustion gas and air. A second block of material (25) which has properties different from the material of the first block completes transport and distribution of the mixture and provides a combustion zone in which the mixture burns and heats the outer surface of the second block to incandescence for efficient infrared radiation. The spaces through which gas flows in the second block (25) are larger than the spaces through which gas flows in the first block (24), so that the mixture expands to form a turbulent mixture in the second block. Gas flow spaces of varying sizes may be provided in each block of material. Ceramic materials are used for withstanding elevated temperatures.

IPC 1-7
F23D 14/12

IPC 8 full level
F23D 14/16 (2006.01)

CPC (source: EP)
F23D 14/16 (2013.01)

Citation (search report)

- No relevant documents disclosed
- See references of WO 8912784A1

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

DOCDB simple family (publication)
WO 8912784 A1 19891228; CA 1336258 C 19950711; EP 0419459 A1 19910403; EP 0419459 A4 19920325; JP H04500997 A 19920220

DOCDB simple family (application)
US 8802085 W 19880617; CA 603136 A 19890616; EP 88906429 A 19880617; JP 50579488 A 19880617