

Title (en)
Gas-fired infrared burners.

Title (de)
Infrarot-Gasbrenner.

Title (fr)
Brûleur à gaz à rayonnement infrarouge.

Publication
EP 0410569 A1 19910130 (EN)

Application
EP 90306559 A 19900615

Priority
CA 603136 A 19890616

Abstract (en)
A radiant burner assembly for a gas fired infrared burner (2) has a first block (4) of permeable material for transporting and distributing a mixture of combustion gas and air. A second block (5) of material which has properties different from the material of the first block (4) 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 (5) to incandescence for efficient infrared radiation. The pore spaces through which gas flows in the second block (5) are larger than the pores spaces through which gas flows in the first block (4) so that the mixture expands to form a turbulent mixture in the second block (5). Varying pore size may be provided in each block of material. Ceramic materials are used for withstanding elevated temperatures.

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F23D 14/12

IPC 8 full level
F23D 14/16 (2006.01)

CPC (source: EP)
F23D 14/149 (2021.05); **F23D 14/16** (2013.01); **F23D 2203/106** (2013.01)

Citation (search report)
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