

Title (en)

A gas combustion apparatus incorporating an atmospheric burner, and method for controlling the air in the apparatus.

Title (de)

Gasbrenngerät mit atmosphärischem Brenner und Verfahren zur Regelung der Luft in das Gerät.

Title (fr)

Appareil de combustion à gaz avec un brûleur atmosphérique et procédé de régulation de l'air dans l'appareil.

Publication

**EP 0606527 A1 19940720 (EN)**

Application

**EP 93113075 A 19930816**

Priority

IT MI930048 A 19930115

Abstract (en)

The apparatus consists basically of an atmospheric burner (10), a combustion chamber (11), and means (13) for creating a vacuum within the combustion chamber. To provide optimum combustion using different gases from one gas family, means for detecting at least one apparatus temperature and means for controlling the primary air (AP) flow according to the temperature detected are provided. Various applications are described wherein the temperature is measured at the surface of a burner diffuser and the primary air is controlled to keep the temperature below a critical value and the flame stable. For improved operation at the ignition stage, the flow rate of the primary air (AP) is set at a comparatively low predetermined starting value. <IMAGE>

IPC 1-7

**F23N 1/04**; **F23N 1/02**

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [X] DE 2631718 A1 19770210 - LEBLANC SA E L M
- [X] DE 4207814 A1 19920917 - VAILLANT JOH GMBH & CO [DE]
- [A] DE 3918855 A1 19900802 - HYDROTHERM GERAETEBAU GMBH [DE]

Cited by

FR2730793A1; ITMI20130013A1; EP0657691A1; EP0981020A3; AU2014262216B2; WO2008025783A3

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DOCDB simple family (application)

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