

Title (en)

A gas burning apparatus having an atmospheric burner, and related feeding method.

Title (de)

Gasbeheiztes Gerät mit atmosphärischem Brenner und entsprechendes Zuführverfahren.

Title (fr)

Appareil de combustion à gaz avec brûleur atmosphérique et procédé connexe pour son alimentation.

Publication

EP 0596555 A1 19940511 (EN)

Application

EP 93202975 A 19931023

Priority

IT MI922510 A 19921102

Abstract (en)

The apparatus comprises an atmospheric burner (10), a combustion chamber (11), and means (13) for creating a vacuum within the combustion chamber. The burner comprises gas outflow nozzles (17), intake and mixing conduits (18) coaxial with the nozzles (17), and diffusers (19,20) in communication with the conduits (18) to deliver the gas/primary air mixture into the combustion chamber (11). To provide optimum smooth combustion, a box-type structure (23), which is substantially closed and communicated to the combustion chamber (11), is arranged to enclose the intake and mixing conduits (18) and includes a wall (24) disposed crosswise between the nozzles and the conduits which has, for each nozzle, an opening (25) for drawing primary air (AP) into the conduits, and openings (26) for introducing secondary air (AS) adjacent to the primary air opening. The streams of primary air (AP) and secondary air (AS) through their respective openings flow in substantially parallel directions. <IMAGE>

IPC 1-7

F23D 14/04

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CPC (source: EP)

F23D 14/045 (2013.01)

Citation (search report)

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- [A] EP 0434599 A1 19910626 - VAILLANT JOH GMBH & CO [DE]
- [A] GB 1517957 A 19780719 - AEROMATIC CO LTD
- [A] GB 1297005 A 19721122

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