

Title (en)

An air-gas mixer device for gas burners with pre-mixing

Title (de)

Luft-Gas-Mischvorrichtung für Gasbrenner mit Vormischung

Title (fr)

Dispositif de mélange air-gaz pour brûleurs à gaz avec prémélange

Publication

EP 2597369 A1 20130529 (EN)

Application

EP 12193596 A 20121121

Priority

IT PD20110372 A 20111124

Abstract (en)

This is a description of a mixing device for combustible gas burners comprising a fan unit (2) with bladed impeller (3) driven around an axis of rotation (X) and having an axial intake section (5) and a radially opposed delivery section (6), a Venturi tube (11), coaxial with the axis of rotation (X), having a first portion (12) converging into a minimum cross section (13) and a second portion (14) diverging from the minimum cross section (13) and extending the first portion (12), the diverging portion (14) terminating at the level of the intake section (5), a chamber (15) for the supply of the flow of gas to the device being defined coaxially to the Venturi tube (11), externally thereto and in fluid communication with the minimum cross section (13) of the Venturi, so that the flow of air fed along the first portion (12) of the Venturi tube is mixed with the flow of gas fed through the chamber (15) to the minimum cross section (13) of the Venturi.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

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- [I] EP 1482245 A1 20041201 - HOVALWERK AG [LI]
- [I] US 5527367 A 19960618 - HARADA SHINICHI [JP]
- [A] EP 2278224 A2 20110126 - LN 2 SRL SOCIO UNICO [IT]

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