

Title (en)
A PREMIX GAS BURNER

Title (de)
VORMISCHGASBRENNER

Title (fr)
BRÛLEUR À GAZ À PRÉ-MÉLANGE

Publication
EP 2368069 B1 20170726 (EN)

Application
EP 09807503 A 20091216

Priority
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• IT PD20080381 A 20081223

Abstract (en)
[origin: WO2010073282A1] A modulating gas burner which is designed for operation with premixing of a combustible air and gas mixture is described and comprises a burner body (2) which can be mounted on a shutter element (5) for sealing a combustion chamber (1a) of the burner, in the region of a through aperture (6) in the shutter (5) through which the combustible mixture is supplied to the burner, a burner head (3) to which the combustible air and gas mixture, which is introduced into the combustion chamber (1a) through the aperture, can be supplied, a device (10) for guiding the flow of the mixture, which device can impart rotational components to the velocity of the flow to the burner head (3), a flash-back prevention device, which is positioned in the burner head (3) in a manner such that the power at the burner can be modulated within a predetermined modulation range between a minimum power condition in which the burner operates predominantly in the manner of a premix burner without flame detachment or flash-back, and a maximum power condition in which the burner operates predominantly in the manner of a burner with recirculation of the flows of the reagents of the combustible mixture. The flow guide device (10) is structurally independent of the flash-back prevention device and is produced integrally with the shutter element (5), in the region of the through aperture (6).

IPC 8 full level
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CPC (source: EP)
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Citation (examination)
EP 2242952 B1 20150107 - SIT LA PRECISA SPA CON SOCIO UNICO [IT]

Cited by
EP3361153A3; CN107969144A; EP3295083A4; US11530711B2; EP4006417A1; CN111033123A; EP3642537A4; US10767900B2

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