

Title (en)

METHOD AND CONTROLLER FOR OPERATING A GAS BURNER APPLIANCE

Title (de)

VERFAHREN UND STEUERGERÄT ZUM BETRIEB EINES GASBRENNERGERÄTS

Title (fr)

PROCÉDÉ ET APPAREIL DE COMMANDE POUR FAIRE FONCTIONNER UN APPAREIL À BRÛLEUR À GAZ

Publication

EP 4119846 A1 20230118 (EN)

Application

EP 21185474 A 20210714

Priority

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Abstract (en)

Method for operating a gas burner appliance (10), the gas burner appliance (10) comprising: a combustion chamber (11), a mixing device (23), a fan (14), a gas safety valve unit (19) assigned to the gas duct (16) having a first gas safety valve (19a) and a second gas safety valve (19b) positioned downstream of the first gas safety valve (19a), a gas flow modulator (18) assigned to the gas duct (16), and an electrical or electronic absolute pressure sensor (21) assigned to the gas duct (16) positioned downstream of the first gas safety valve (19a). The gas burner appliance (10) is operated to compensate for a fluctuating gas inlet pressure of the gas burner appliance by executing the following steps: Measure a first absolute pressure by the absolute pressure sensor (21) when at least the first gas safety valve (19a) of the gas safety valve unit (19) is closed. Measure a second absolute pressure by the absolute pressure sensor (21) when the gas safety valve unit (19) is opened. Determine a pressure difference between the first absolute pressure or a pressure depending on the first absolute pressure and the second absolute pressure or a pressure depending on the second absolute pressure. Operate the gas flow modulator (18) dependent from said pressure difference.

IPC 8 full level

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CPC (source: EP)

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Citation (applicant)

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- DE 19824521 A1 19991209 - HONEYWELL BV [NL]
- EP 2405198 B1 20130220 - VAILLANT GMBH [DE]
- US 2006292505 A1 20061228 - GIACOMELLI MASSIMO [IT]
- JP 4850163 B2 20120111

Citation (search report)

- [A] JP 2017116382 A 20170629 - MIURA KOGYO KK
- [A] US 2004062290 A1 20040401 - CORDIER REMY [FR], et al
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Designated contracting state (EPC)

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