

Title (en)
METHOD FOR OPERATING A GAS BURNER APPLIANCE

Title (de)
VERFAHREN ZUM BETRIEB EINES GASBRENNNERGERÄTS

Title (fr)
PROCÉDÉ DE FONCTIONNEMENT D'UN APPAREIL À BRÛLEUR À GAZ

Publication
EP 3477201 A1 20190501 (EN)

Application
EP 17198609 A 20171026

Priority
EP 17198609 A 20171026

Abstract (en)
A gas burner appliance (10) comprises a gas burner (11) for combusting a gas/air mixture. The gas burner appliance (10) further comprises a primary heat exchanger (13) for heating service water (14) by the combustion of said gas/air mixture, and a secondary heat exchanger (18) for heating domestic water (19) by the heated service water (14). In a first or winter operation mode the heated service water (14) is provided to a heating system (15) and/or to the secondary heat exchanger (18). In a second or summer operation mode the heated service water (14) is only provided to the secondary heat exchanger (18). During burner-on phases the gas/air mixture having a defined mixing ratio of gas and air is provided to the gas burner (11). During burner-on phases the defined mixing ratio of gas and air of the gas/air mixture can be controlled and/or calibrated on basis of a signal provided by an electrical or electronic sensor (25). In the second or summer operation mode the calibration of the defined mixing ratio of gas and air is initiated in such a way that a value being representative of a number of burner starts and/or of an operating time and a temperature being representative of the gas burner temperature are monitored. If the value being representative of the number of gas burner starts and/or of the operating time reaches or crosses a first threshold, and if further the temperature being representative of the gas burner temperature reaches or falls below or is below a second threshold, then the gas burner (11) is started without presence of a heat demand to calibrate the defined mixing ratio of gas and air of the gas/air mixture.

IPC 8 full level
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Citation (applicant)
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• EP 1179159 B1 20041124 - HONEYWELL BV [NL]
• DE 102004051270 A1 20060427 - KROMSCHROEDER AG G [DE]
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• [A] EP 2631541 A1 20130828 - HONEYWELL TECHNOLOGIES SARL [CH]
• [AD] DE 102004051270 A1 20060427 - KROMSCHROEDER AG G [DE]
• [A] US 2017292698 A1 20171012 - LANGIUS GERWIN [NL], et al
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• [A] EP 1207340 A2 20020522 - BUDERUS HEIZTECHNIK GMBH [DE]

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