

Title (en)
Method for operating a gas burner

Title (de)
Verfahren zum Betrieb eines Gasbrenners

Title (fr)
Procédé de fonctionnement d'un brûleur à gaz

Publication
EP 2667097 B1 20180307 (EN)

Application
EP 12169240 A 20120524

Priority
EP 12169240 A 20120524

Abstract (en)
[origin: EP2667097A1] Method for operating a gas burner (10), wherein during burner-on phases a defined gas/air mixture having a defined mixing ratio of gas and air is provided to a burner chamber (11) of the gas burner (10) for combusting the defined gas/air mixture within the burner chamber (11), wherein the defined gas/air mixture is provided by a mixing device (23) mixing an air flow provided by an air duct (15) with a gas flow provided by a gas duct (16). During burner-on phases the defined mixing ratio of gas and air of the defined gas/air mixture can be calibrated to different gas qualities on basis of a signal provided by an ionization sensor (13) positioned downstream of the mixing device (23) within the burner chamber (11). For the calibration of the gas/air mixture the gas/air mixture is made richer by increasing the gas amount of the gas/air mixture relative to the air amount of the same until a flattening or a maximum of the signal provided by the ionization sensor (13) is detected, whereby the further calibration of the gas/air mixture depends on if either a flattening or a maximum of the signal provided by the ionization sensor (13) is detected.

IPC 8 full level
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CPC (source: EP)
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Cited by
EP3073195A1; EP3617596A1; DE102015225896A1; EP4033148A1; DE102015225886A1; EP4155609A1; WO2022157320A1; WO2023046466A1; US2017292698A1; JP2020046096A; US10520186B2; EP4008957A1; CN105987397A; WO2021165051A1; WO2018215527A1; US11441772B2; US10247416B2; US11608984B1; EP4279808A1; WO2023222696A1; US11287131B2; EP3228936B1; EP4092325A1; WO2022243160A1; US11608983B2; EP3059496A1; EP3182007A1; EP3699492A1; EP3913285A1; EP4119846A1; WO2023285352A1; US11635206B2; EP3043115A1; EP3228936A1; EP4119845A1; WO2023285345A1

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