

Title (en)

Combustion control method for gas boiler

Title (de)

Verfahren zur Verbrennungsregelung für einen Gaskessel

Title (fr)

Procédé de régulation de combustion pour une chaudière à gaz

Publication

EP 1016829 A3 20030312 (EN)

Application

EP 99108670 A 19990517

Priority

- KR 19980059936 A 19981229
- KR 19980059938 A 19981229

Abstract (en)

[origin: EP1016829A2] A combustion control method for a gas boiler capable of maintaining a stable combustion state by using a flame voltage by means of an infrared sensor is provided. In the method, it is judged whether a flame voltage is higher than a reference forward wind flame voltage when combustion occurs in the gas boiler. A fan voltage is firstly controlled awhen the flame voltage is higher than the reference forward wind flame voltage and it is judged whether the flame voltage is lower than a reference reverse wind flame voltage when the flame voltage is lower than or equal to the reference forward wind flame voltage. The fan voltage is secondly controlled awhen the flame voltage is lower than the reference reverse wind flame voltage, and the first controlled fan voltage to an original fan voltage according to change amount of the fan voltage by the first control of the fan voltage or the second control of the fan voltage when the flame voltage is equal to or higher than the reference reverse wind flame voltage is compensated. According to the method, when a combustion is imperfect due to external environment such a forward or reverse wind, it can maintain a stable combustion by controlling a fan voltage. <IMAGE>

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CPC (source: EP)

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Citation (search report)

- [XY] GB 2280023 A 19950118 - BRITISH GAS PLC [GB]
- [Y] JP H03134408 A 19910607 - SAMSUNG ELECTRONICS CO LTD
- [Y] PATENT ABSTRACTS OF JAPAN vol. 1999, no. 03 31 March 1999 (1999-03-31)

Designated contracting state (EPC)

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