

Title (en)

CONTROL DEVICE FOR A GAS BURNER WITH A FAN FOR SUPPLYING COMBUSTION AIR

Publication

EP 0505714 A3 19930303 (DE)

Application

EP 92102550 A 19920215

Priority

DE 4109841 A 19910326

Abstract (en)

[origin: EP0505714A2] In a known control device of the generic type, the set-point adjuster (30) of the gas control valve (32) detects only the volume flow of the combustion air but not its temperature. This can lead to a reduction in the combustion quality, if the temperature of the combustion air deviates significantly from a normal value used as a basis in the design of the control device. As a result of the further function, assigned to the set-point adjuster (30) of the gas control valve (32), of detection of the temperature of the combustion air and temperature-dependent control of the set-point, it can be simply achieved that, at all temperatures occurring in practice of the combustion air within a predetermined capacity range of the gas burner (20), the ratio of air mass to gas mass and thus the excess air can be kept virtually constant. Preferred area of application is control devices for premix-type burners in gas-fired water heaters. <IMAGE>

IPC 1-7

F23N 1/02; **F23N 5/04**

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

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- [A] PATENT ABSTRACTS OF JAPAN vol. 13, no. 335 (M-856)(3683) 27. Juni 1989 & JP-A-11 14 617 (RINNAI CORP) 8. Mai 1989

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