

Title (en)

Combined gas-air control system for controlling combustion in gas fired boilers

Title (de)

Kombiniertes Regelsystem für Gas und Luft zur Verbrennungsregelung eines Gasheizkessels

Title (fr)

Système de commande combinée à gaz et à air pour commander la combustion d'une chaudière à gaz

Publication

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Application

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Priority

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Abstract (en)

The combined gas-air control system for gas fired boilers (B) including a microcontroller ( $\mu$  C) with memory means, set point temperature selector means (Rh,Rs), measuring means (18,19,20,21), a thermostat (27), a variable-speed fan (6), a gas modulating valve (MV) in which the microcontroller ( $\mu$  C) comprises: first controlling means (22) for correcting the error signal  $E(T)=Trh-Th$  or  $E(T)=Trs-Ts$  and for controlling the air pressure in the combustion chamber (1), second controlling means (23) for correcting the error signal  $E(P)=Pac-Pa$  and for controlling the speed of the fan, processing means (24,25) for processing the ionisation voltage and the modulating valve current signals, third controlling means (26) for correcting the error signal  $E(V)=Vion(th)-Vion$  and the modulating valve current. <IMAGE>

IPC 1-7

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IPC 8 full level

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Citation (search report)

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- [A] PATENT ABSTRACTS OF JAPAN vol. 095, no. 006 31 July 1995 (1995-07-31)
- [A] PATENT ABSTRACTS OF JAPAN vol. 014, no. 049 (M - 0927) 29 January 1990 (1990-01-29)
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