

Title (en)

Method and device for controlling the load of a boiler with a mechanical grate.

Title (de)

Verfahren und Einrichtung zur Lastregelung eines Kessels mit mechanischer Feuerungsroste.

Title (fr)

Procédé et dispositif de régulation de charge pour chaudière à grille mécanique.

Publication

EP 0539309 B1 19950920 (FR)

Application

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Priority

FR 9113541 A 19911025

Abstract (en)

[origin: EP0539309A1] The present invention relates to a device for controlling the load of a boiler with a mechanical grate (1), with adjustable drive speed "V" and using solid fuel (2) supplied through a controller (5) of height "h" of layer (3), and capable of transmitting to an exchanger circuit (17) an adjustable thermal power. It comprises an arithmetic unit (25) which is connected at least to different sensors for measuring said height "h", said speed "V" and functioning parameters of said exchanger circuit (17), and in which there is stored in a memory a coefficient K_o proper to the fuel (2) used, such that the theoretical power that said fuel can release in the combustion chamber (6) of the boiler is $Q_b = V \times h \times K_o$. This value K_o is corrected by said arithmetic unit (25) each time the difference between the theoretical power Q_b and that transmitted Q_m to the circuit (17) is too great, and replaced by a new value K_i calculated from this last measured heat. Said arithmetic unit (25) is connected to any control system (22) which controls the flow of air sent into the combustion chamber of said boiler and thus takes into account said theoretical power value Q_b and that required by said exchanger circuit (17). <IMAGE>

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IPC 8 full level

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