

Title (en)
FUEL/AIR RATIO REGULATION DEVICE FOR A FUEL-FIRED HEAT SOURCE

Publication
EP 0158842 B1 19890315 (DE)

Application
EP 85103055 A 19850316

Priority
DE 8409840 U 19840330

Abstract (en)
[origin: EP0158842A1] 1. An apparatus for automatically controlling the fuel-air ratio of a fuel-firing heat source (1) comprising sensor means (40) for determining an actual value in dependence on at least the supply air, and a controller (11), which in dependence on the actual value and on a set point obtained from a set point generator (48) controls a final control element (17) for the control of the fresh air which is flowing to the heat source, characterized in that the sensor means consist of four temperature sensors, two of which constitute measuring sensors (21, 30), which are associated with the supply air path (14) and with the exhaust gas path (13) of the heat source (1), whereas the two others constitute temperature-compensating sensors (32, 33) for detecting temperature changes of the incoming fresh air and of the exhaust gas resulting from load changes, and that the temperature sensors consist of measuring resistors and are arranged in arms of a Wheatstone bridge (40) having one branch (41, 42) which is constituted by the two measuring resistors and another branch which is constituted by the two compensating resistors.

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IPC 8 full level
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CPC (source: EP)
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Cited by
EP0994303A1; EP0175890A1; EP4012260A1; GB2270748A; GB2270748B

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