

Title (en)
Burner system for liquid fuel

Title (de)
Brennersystem für flüssigen Brennstoff

Title (fr)
Brûleur pour combustible liquide

Publication
EP 0556694 B1 19960501 (DE)

Application
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Priority
DE 4204592 A 19920215

Abstract (en)
[origin: EP0556694A1] 2.1 In known burner systems, simple modulation of the burner output, reliable fuel metering, fine atomization and Lambda control cannot be achieved. In addition, impure exhaust gas is formed in open-loop operation. 2.2 In the burner system according to the invention, the air flow rate is measured in a measuring section, the measurement variable of which is an electric signal which is emitted by a pressure sensor (27) or by a hot-wire air mass flow meter (2) and is processed in an electronic control unit (13) to give a control signal for an electric servomotor (15) which controls and regulates the fuel flow through a calibrating nozzle (16, 30). 2.3 The new burner system is distinguished by its simple construction and is suitable for modulating the burner output within a wide range and, inter alia, also for a method of compensating for changes in fuel viscosity. <IMAGE>

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Cited by
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