

Title (en)  
METHOD FOR THE SUPERVISION OF COMBUSTION PLANTS

Publication  
**EP 0088975 A3 19840912 (DE)**

Application  
**EP 83102205 A 19830307**

Priority  
DE 3208765 A 19820311

Abstract (en)  
[origin: US4508501A] A process for the surveillance of jacketed radiant heating tubes and recuperative burners using a detector responding to the oxygen partial pressure in the exhaust gas. At low exhaust gas temperatures down to 200 DEG to 300 DEG C., an abrupt change in the detector output signal occurring due to the transition from over-stoichiometric to under-stoichiometric combustion and vice-versa is detected and is reproduced as an actuating and/or alarm signal. The process can also be used for flame surveillance, for the determination of leaks and cracks in jackets, and for surveillance of the tightness of closed magnetic gas valves.

IPC 1-7  
**F23M 11/04**; **F23N 5/00**

IPC 8 full level  
**F23M 11/04** (2006.01); **F23N 5/00** (2006.01); **F23N 5/24** (2006.01)

CPC (source: EP US)  
**F23M 11/04** (2013.01 - EP US); **F23N 5/006** (2013.01 - EP US)

Citation (search report)

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Designated contracting state (EPC)  
DE GB SE

DOCDB simple family (publication)  
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DOCDB simple family (application)  
**EP 83102205 A 19830307**; CA 423386 A 19830311; DD 24875483 A 19830311; DE 3208765 A 19820311; JP 3935283 A 19830311; US 47337083 A 19830308