

Title (en)  
OIL BURNER

Publication  
**EP 0227637 B1 19900314 (DE)**

Application  
**EP 86890355 A 19861223**

Priority  
AT 374485 A 19851223

Abstract (en)  
[origin: EP0227637A2] 1. Oil burner with an oil atomizing device (1), a surrounding combustion air feed (2, 16, 12) coaxial thereto and which opens into an aperture (3), also with a mixing tube (4) open at both ends for fuel, combustion air and flue gas, which is arranged downstream of the aperture (3) in a combustion chamber (8), wherein flue gas emanating directly from the combustion chamber is sucked round the outside of the mixing tube and into a first, upstream section (5) of the same, characterized in that both the air combustion air feed (2, 16, 12) surrounding the oil atomizing device (1) and a second section (6) of the mixing tube (4) displaced downstream, which is enlarged relative to the first section (5) thereof are connected to a line for feeding combustion air and a line for feeding cooled flue gas through a mixing device, for feeding a mixture of flue gas from the boiler and combustion air, wherein the line (16, 12) for feeding the mixture of flue gas and combustion air opens from outside into the mixing tube (4) in the region of its enlargement (7).

IPC 1-7  
**F23C 9/00**; **F23D 11/40**; **F23D 17/00**

IPC 8 full level  
**F23C 9/00** (2006.01); **F23D 11/40** (2006.01); **F23D 17/00** (2006.01)

CPC (source: EP)  
**F23C 9/006** (2013.01); **F23D 11/402** (2013.01); **F23D 17/002** (2013.01)

Cited by  
EP0348646A3; CN104807013A; EP0879992A1; AT407907B; WO9516883A1; WO2021185903A1

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