

Title (en)

Process and device for combustion of liquid fuel

Title (de)

Verfahren und Vorrichtung zur Verbrennung von flüssigem Brennstoff

Title (fr)

Procédé et dispositif pour la combustion d'un combustible liquide

Publication

EP 0867658 B1 20001129 (DE)

Application

EP 98810247 A 19980323

Priority

CH 71897 A 19970324

Abstract (en)

[origin: EP0867658A1] Liquid fuel is sprayed into the flame tube (15) of an oil burner in front of the flame root (77), entering returning flue gas and evaporating there. Flue gas enriched with the fuel is mixed in a turbulent manner with air (71). The air is preferably injected into the flame tube through a central orifice (29) in a baffle disc (13) and the flue gas enters at the disc end of the flame tube so that it sheathes (67) the central air stream (69). Also claimed is an oil burner with flue gas recirculation in which the spray orifice (21) of the fuel nozzle (23) is in the plane of the baffle disc producing low pressure and the disc has a ring-shaped air inlet around the fuel nozzle.

IPC 1-7

F23C 9/00; **F23D 11/40**

IPC 8 full level

F23C 9/00 (2006.01); **F23D 11/40** (2006.01)

CPC (source: EP)

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Cited by

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