

Title (en)  
Burner for liquid fuel

Title (de)  
Brenner für flüssige Brennstoffe

Title (fr)  
Brûleur à combustible liquide

Publication  
**EP 1731834 A1 20061213 (DE)**

Application  
**EP 06011721 A 20060607**

Priority  
DE 102005026649 A 20050609

Abstract (en)  
The burner has a housing, which comprises a support tube with an antechamber and a fire tube. A nozzle holder is provided in the support tube with a nozzle, which generates a fuel jet. An orifice (3) with a central opening (4) is arranged between a combustion chamber and the antechamber. The opening comprises fan-shaped extensions (5) running from a core region that is close to the fuel jet in radial direction. Combustion air in combination with the core flow that is close to the fuel jet enters into a turbofan stabilizing an inner recirculation flow of hot gases in the combustion chamber.

IPC 8 full level  
**F23D 11/24** (2006.01); **F23C 9/00** (2006.01); **F23D 11/40** (2006.01)

CPC (source: EP)  
**F23C 9/00** (2013.01); **F23D 11/24** (2013.01); **F23D 11/402** (2013.01); **F23D 11/408** (2013.01)

Citation (search report)

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- [X] FR 1484973 A 19670616 - OPTIMAL OLFEUERUNGSMASCHB GMBH
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- [A] FR 1448198 A 19660128
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Citation (examination)  
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Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR MK YU

DOCDB simple family (publication)  
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DOCDB simple family (application)  
**EP 06011721 A 20060607**; DE 102005026649 A 20050609