

Title (en)  
Oil evaporation burner

Title (de)  
Ölverdampfungsbrenner

Title (fr)  
Brûleur à évaporation de mazout

Publication  
**EP 0756133 A3 19970903 (DE)**

Application  
**EP 96111491 A 19960717**

Priority  
DE 19527088 A 19950725

Abstract (en)  
[origin: EP0756133A2] The oil burner has deflectors (3) which create a swirling flow in the chamber (3') defined by the deflectors. There are least two injectors pointing at a tangent into the chamber. The deflectors consists of at least two identical, cylindrical plates (3'') with the same cross-section over their entire length. A fuel feed pipe (2) with nozzle (D) points into the space defined by the deflectors. Air feeders formed by free-standing tubes (12) are positioned in front of the injectors with air outlets pointing into the injectors. The tubes and deflector plates are positioned on an air feed chamber (13). The deflector plates, on the inflow side, have smooth-surface extensions in front of curved walls (14). The deflector plates and tubes are axially parallel with the burner axis (11).

IPC 1-7  
**F23C 7/00**; **F23C 9/00**

IPC 8 full level  
**F23C 7/00** (2006.01); **F23C 9/00** (2006.01)

CPC (source: EP)  
**F23C 7/002** (2013.01); **F23C 9/006** (2013.01); **F23C 2900/06041** (2013.01); **F23C 2900/07002** (2013.01); **F23C 2900/09002** (2013.01)

Citation (search report)  
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• [Y] DE 4237187 A1 19940505 - RUDERICH RAIMUND PROF DR [DE]  
• [A] DE 3136911 A1 19830331 - SRED AZ VNII ISPOLZOVANIJA GAZ [SU]  
• [AD] WO 9317279 A1 19930902 - UNITED TECHNOLOGIES CORP [US]

Cited by  
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Designated contracting state (EPC)  
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