

Title (en)  
BURNER DEVICE FOR COMBUSTION OF LIQUID FUEL

Publication  
**EP 0007424 B1 19821124 (DE)**

Application  
**EP 79101956 A 19790615**

Priority  
• DE 2828319 A 19780628  
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• DE 2912102 A 19790327

Abstract (en)  
[origin: EP0007424A1] 1. A burner device for combustion of liquid fuels, with a cylindrical vortex chamber (43), said chamber being closed at one side by a rear wall, said chamber opening at the other side into a combustion chamber with an aperture or apertures (44, 44') in the shell of the vortex chamber (43) for the supply of combustion air, the combustion air being introduced into the apertures (44, 44') and producing a vortex depression stream (cyclone), and with a cylindrical shell tube (63) positioned after the vortex chamber (43) and being open towards the furnace side, characterized by that the input aperture (30) for the fuel is positioned centrally in the rear wall of the vortex chamber (43), the fuel leaving the input aperture (30) as a compact jet, and that a baffle sleeve (76) is concentrically built into the shell tube (63), said baffle sleeve (76) comprising peripherically distributed suction ports (79), said suction ports being positioned within the range of the vortex chamber.

IPC 1-7  
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IPC 8 full level  
**F23D 11/10** (2006.01); **F23D 11/12** (2006.01); **F23D 11/40** (2006.01); **F23Q 7/08** (2006.01)

CPC (source: EP)  
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Cited by  
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