

Title (en)
BURNER FOR BURNING A LIQUID FUEL

Publication
EP 0002124 B1 19801112 (EN)

Application
EP 78300617 A 19781110

Priority
GB 4706677 A 19771111

Abstract (en)
[origin: EP0002124A1] A burner for burning a liquid fuel comprises a burner head (23) at which a mixture of air and the vapours of the fuel is burned in a substantially stable flame (24). At least some of the air for the mixture is supplied by a low pressure fan (16) or equivalent airsupply device, and the fuel vapour is generated by a vapourizer (11) which operates independently of the presence of any flame at the burner head, the liquid fuel being converted to fuel vapour, without contacting hot gases and/or oxygen-containing gas, at atmospheric pressure or slightly above. A conduit (15) conducts air at approximately atmospheric pressure from the fan (16) to the burner head (23) via an air swirl device (21) which imparts a swirling or vortex flow to the air. Fuel vapour passes from the vapourizer (11) into the conduit (15) at, or downstream of, the location of the air swirl device (21) so that the fuel vapour is thoroughly mixed with the air.

IPC 1-7
F23D 11/44; **F24C 5/02**

IPC 8 full level
F23D 11/44 (2006.01); **F24C 5/02** (2006.01)

CPC (source: EP)
F23D 11/448 (2013.01); **F24C 5/02** (2013.01)

Cited by
CN102330975A; CN104067050A; US9170017B2; WO2011085105A3; WO2013127065A1; WO2013159267A1

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