

Title (en)  
Premix burner

Title (de)  
Vormischbrenner

Title (fr)  
Brûleur à prémélange

Publication  
**EP 0711953 A3 19970903 (DE)**

Application  
**EP 95810671 A 19951030**

Priority  
DE 4440558 A 19941112

Abstract (en)  
[origin: EP0711953A2] The burner has nozzle holes (18) in high air speed zones of the burner in two part conical bodies. The nozzle holes (18) connect the interior (14) of the burner and the nozzle body's inflow duct (24) for the liquid fuel (12) being atomised. The burner consists of at least two hollow conical part bodies (1,2). The narrowest cross-section of the conical interior formed by the conical part bodies contains a high pressure atomising nozzle (3) for liquid fuel. The nozzle holes point towards the air inlet slots (19,20) in the conical part bodies, in the burner. The angle ( beta ) between the fuel drop spray (4) and the burner's longitudinal axis (5) is at least as big as the half-cone angle ( alpha ) between the part cone bodies (1,2) and the burner's longitudinal axis.

IPC 1-7  
**F23D 11/38**; **F23D 17/00**; **F23C 7/00**

IPC 8 full level  
**F23C 7/00** (2006.01); **F23D 11/38** (2006.01); **F23D 11/40** (2006.01); **F23D 17/00** (2006.01)

CPC (source: EP US)  
**F23C 7/002** (2013.01 - EP US); **F23D 11/38** (2013.01 - EP US); **F23D 11/402** (2013.01 - EP US); **F23D 17/002** (2013.01 - EP US); **F23C 2900/07002** (2013.01 - EP US)

Citation (search report)

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