Title (en)

Dual fuel burner

Title (de)

Zweistoffbrenner

Title (fr)

Brûleur à deux combustibles

Publication

EP 0933593 A3 20000119 (DE)

Application

EP 98123875 A 19981216

Priority

DE 19803879 A 19980131

Abstract (en)

[origin: EP0933593A2] The burner (1) is also capable of running on gaseous fuel (G) supplied via a channel (7) between the prim. and sec. supply channels (5, 6) for combustion air (L1, L2). The gaseous fuel supply channel leads into the inside of the atomising nozzle lip (3), opening out into the prim. and/or sec. air supply channel upstream from the nozzle edge (4) forming the rear end of the lip. The atomising nozzle (2) generates a spray cone (13) formed when the liquid fuel (F) impinges against a nozzle lip with a concentric arrangement relative to the nozzle central axis (X). The prim. air supply channel leading to the spray cone passes through the inside of the nozzle lip, whilst the sec. air supply channel extends over the outside of the lip, combining with the prim. air supply channel to form an enveloping flow of air.

IPC 1-7

F23D 11/10; F23D 11/24; F23D 17/00; F23R 3/36

IPC 8 full level

F23D 11/00 (2006.01); **F23D 11/10** (2006.01); **F23D 17/00** (2006.01)

CPC (source: EP US)

F23D 11/007 (2013.01 - EP US); **F23D 11/107** (2013.01 - EP US); **F23D 17/002** (2013.01 - EP US); F23D 2900/11101 (2013.01 - EP US)

Citation (search report)

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- [A] US 3691765 A 19720919 - CARLISLE DENIS RICHARD
- [A] EP 0660038 A2 19950628 - ROLLS ROYCE PLC [GB]
- [A] US 4842197 A 19890627 - SIMON BURKHARD [DE], et al

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DE102006007087B4; CN107262302A; EP1340940A1; US6764302B2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 0933593 A2 19990804; **EP 0933593 A3 20000119**; **EP 0933593 B1 20030514**; DE 19803879 C1 19990826; JP H11248114 A 19990914; US 6068470 A 20000530

DOCDB simple family (application)

EP 98123875 A 19981216; DE 19803879 A 19980131; JP 37339598 A 19981228; US 24047799 A 19990129