

Title (en)
Burner with exhaust gas recirculation

Title (de)
Brenner mit Abgasrückführung

Title (fr)
Brûleur avec recirculation des gaz d'échappement

Publication
EP 0809070 B1 20010829 (DE)

Application
EP 96107956 A 19960519

Priority
EP 96107956 A 19960519

Abstract (en)
[origin: EP0809070A1] The recirculated exhaust gases are mixed with the fresh air (16) in a mixing channel (5) formed as a ring-shaped jet pump with a device for causing the gas mixture to twist round the burner axis as it moves in a main flow direction parallel to the burner axis. The mixing channel is defined by two conical shells with the inner shell ending in the main flow direction in front of a restriction (3) in the outer shell. The outer shell widens out after the restriction to a diffuser. Several openings are provided for the fresh air to enter the mixing channel in order to form several individual separate suction jet pumps to recirculate the exhaust gases.

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IPC 8 full level
F23C 9/00 (2006.01); **F23D 11/40** (2006.01); **F23D 17/00** (2006.01)

CPC (source: EP)
F23C 9/006 (2013.01); **F23D 11/40** (2013.01); **F23D 17/002** (2013.01); **F23C 2202/30** (2013.01)

Cited by
DE102016001893A1; KR100478085B1; DE102012110506A1; DE102012110506B4; US10928134B2; US11187408B2; WO2008049757A1

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