

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.

IPC 1-7

**F23D 11/40**; F23D 17/00; F23C 9/00

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

Designated contracting state (EPC)

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

DOCDB simple family (publication)

**EP 0809070 A1 19971126**; **EP 0809070 B1 20010829**; AT E204972 T1 20010915; DE 59607583 D1 20011004

DOCDB simple family (application)

**EP 96107956 A 19960519**; AT 96107956 T 19960519; DE 59607583 T 19960519