

Title (en)

BURNER FOR COMBUSTION OF A LOW-CALORIFIC FUEL GAS AND METHOD FOR OPERATING A BURNER

Title (de)

BRENNER ZUR VERBRENNUNG EINES NIEDERKALORISCHEN BRENNGASES UND VERFAHREN ZUM BETRIEB EINES BRENNERS

Title (fr)

BRULEUR DESTINE A LA COMBUSTION D'UN GAZ COMBUSTIBLE A FAIBLE POUVOIR CALORIFIQUE ET PROCEDE POUR FAIRE FONCTIONNER UN BRULEUR

Publication

**EP 1800062 B1 20101103 (DE)**

Application

**EP 05801280 A 20050930**

Priority

- EP 2005054948 W 20050930
- EP 04024186 A 20041011
- EP 05801280 A 20050930

Abstract (en)

[origin: EP1645807A1] The burner (1) burns low calorie, in particular synthetic, gas (SG). Its air channel (2) contains a swirling element (4) to create turbulent combustion air (10). The swirling element should preferably be in a region (28) directly adjacent to the mixing region (27). The degree of turbulence of the air flow is increased on a microscopic scale directly before it is mixed with the synthetic gas.

IPC 8 full level

**F23R 3/14** (2006.01); **F23R 3/36** (2006.01)

CPC (source: EP)

**F23R 3/14** (2013.01); **F23R 3/36** (2013.01); **F23D 2900/14021** (2013.01); **F23D 2900/14241** (2013.01); **F23R 2900/00002** (2013.01)

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**EP 1645807 A1 20060412**; CN 101040149 A 20070919; CN 101040149 B 20100616; EP 1800062 A1 20070627; EP 1800062 B1 20101103; ES 2354703 T3 20110317; WO 2006040269 A1 20060420

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