

Title (en)

HIGH PERIMETRAL STABILITY GAS BURNER

Title (de)

GASBRENNER MIT HOHER RANDBEREICHSSSTABILITÄT

Title (fr)

BRÛLEUR À GAZ À STABILITÉ PÉRIPHÉRIQUE ÉLEVÉE

Publication

**EP 2663807 B1 20170405 (EN)**

Application

**EP 12705415 A 20120111**

Priority

- IT MI20110019 A 20110112
- IB 2012050135 W 20120111

Abstract (en)

[origin: WO2012095799A2] Herein a gas boiler burner (1) is described comprising a diffuser (2), suitable for diffusing premixed fuel gases in a combustion chamber (3), each cross-section of said diffuser (2) having a uniform radius of curvature, in which said diffuser (2) comprises a diffuser central portion (10) and two diffuser longitudinally peripheral portions (5), said two diffuser longitudinally peripheral portions (5) being connected together through said central diffuser portion (10), said central diffuser portion (10) extending longitudinally in a direction perpendicular to the flow of the fuel gases over a length 1 greater than zero and having a cross-section shaped as a circumference arc having a radius r, each of said diffuser longitudinally peripheral portions (5) being shaped as a portion of sphere having radius r.

IPC 8 full level

**F23D 14/14** (2006.01); **F23D 14/58** (2006.01); **F23D 14/74** (2006.01)

CPC (source: EP KR US)

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