

Title (en)

BURNER UNITS AND GAS-FIRED WATER HEATING APPLIANCE USING THE SAME

Title (de)

BRENNEREINHEITEN UND GASBEFEUERTER WASSERERHITZER MIT VERWENDUNG DAVON

Title (fr)

UNITÉS DE BRÛLEUR ET CHAUFFE-EAU AU GAZ L'UTILISANT

Publication

**EP 3343105 A1 20180704 (EN)**

Application

**EP 17208762 A 20171220**

Priority

CN 201611272116 A 20161227

Abstract (en)

The present invention discloses a burner unit including a first combustion portion and a second combustion portion. The first combustion portion extends in a lengthwise direction and including a number of first fire holes arranged along a widthwise direction perpendicular to the lengthwise direction for providing one of fuel-rich flames and fuel-lean flames. The second combustion portion extends in the lengthwise direction and including a number of second fire holes disposed on both sides of the first fire holes in the widthwise direction for providing the other of the fuel-rich flames and the fuel-lean flames. A first interval width is defined between the number of first fire holes in the widthwise direction. In this way, a separate flame can be formed on each of the first fire holes, thereby increasing the overall surface area of the flames and facilitating heat dissipation to reduce the combustion temperature, thus contributing to the reduction of nitrogen oxide emissions.

IPC 8 full level

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CPC (source: CN EP)

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Citation (applicant)

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Citation (search report)

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