

Title (en)

GAS FORCED AIR BURNER HAVING MODULATABLE BURNER POWER AND METHOD FOR OPERATING A GAS FORCED AIR BURNER

Title (de)

GASGEBLÄSEBRENNER MIT MODULIERBARER BRENNERLEISTUNG UND VERFAHREN ZUM BETREIBEN EINES GASGEBLÄSEBRENNERS

Title (fr)

BRÛLEUR DE SOUFFLERIE À GAZ PRÉSENTANT UNE PUISSANCE DE BRÛLEUR MODULABLE ET PROCÉDÉ POUR FAIRE FONCTIONNER UN BRÛLEUR DE SOUFFLERIE À GAZ

Publication

EP 2534421 B1 20140326 (DE)

Application

EP 10787464 A 20101208

Priority

- DE 102009058453 A 20091216
- EP 2010069122 W 20101208

Abstract (en)

[origin: WO2011082924A2] The invention relates to a gas forced air burner having modulatable burner power for a gas heating appliance, having an air path for feeding combustion air supported by a fan, a gas path for feeding a fuel gas, a gas valve for regulating the amount of the fuel gas, a burner surface and a distribution chamber disposed upstream of the burner surface, into which the combustion air and the fuel gas open, characterized in that the burner surface and the distribution chamber are divided into at least two regions, and that the gas path divides into at least two partial gas paths at a branch downstream of the gas valve, each partial path being connected to an associated region of the distribution chamber. The method according to the invention for operating a gas forced air burner is characterized in that a fuel gas flows directly into a first region of a burner surface when operating in a first burner power range, mixes in said first region with combustion air into a fuel gas-air mixture, and the combustion is then begun. When operating in a second burner power range, the fuel gas flows through an air path guiding air to a mixture forming section, from where said gas flows further as fuel gas-air mixture to a second region of the burner area, and then is fed to the combustion.

IPC 8 full level

F23D 14/34 (2006.01); **F23D 23/00** (2006.01); **F23N 1/02** (2006.01)

CPC (source: EP)

F23D 14/34 (2013.01); **F23D 23/00** (2013.01); **F23N 1/025** (2013.01); **F23D 2900/00017** (2013.01); **F23N 2237/10** (2020.01)

Cited by

US10480794B2; US11460190B2; US10753617B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2011082924 A2 20110714; **WO 2011082924 A3 20110909**; DE 102009058453 A1 20110622; DE 102009058453 B4 20110901; EP 2534421 A2 20121219; EP 2534421 B1 20140326

DOCDB simple family (application)

EP 2010069122 W 20101208; DE 102009058453 A 20091216; EP 10787464 A 20101208