

Title (en)

Gas/Air mixing device for a gas burner

Title (de)

Gas-/Luftmischvorrichtung für einen Gasbrenner

Title (fr)

Dispositif de mélange gaz/air destiné à un brûleur à gaz

Publication

EP 2653215 A1 20131023 (EN)

Application

EP 12164978 A 20120420

Priority

EP 12164978 A 20120420

Abstract (en)

Gas/Air mixing device (10) for a gas burner, comprising a housing (11) with at least one inlet (12) for the gas, at least one inlet (13) for the air and at least one outlet (14) for the gas/air mixture; at least two venturi air nozzles (18, 19), wherein each venturi air nozzle (18, 19) comprises an air nozzle inlet (20, 21) and an air nozzle outlet (22, 23), and wherein to each air nozzle outlet (22, 23) there is assigned a gas nozzle (24, 25) so that air and gas can be mixed in the region of the air nozzle outlet (22, 23) of the respective venturi air nozzle (18, 19); at least one flow restrictor (26) assigned to at least one venturi air nozzle (18, 19) capable of shutting the flow of air through the respective venturi air nozzle (18, 19); wherein the at least one flow restrictor (26) is capable of shutting the flow of air through the respective venturi air nozzle (18, 19) and simultaneously the flow of gas through the gas nozzle (24, 25) assigned to the respective venturi air nozzle (18, 19).

IPC 8 full level

B01F 5/04 (2006.01); **B01F 23/10** (2022.01); **F23D 14/60** (2006.01); **F23D 14/62** (2006.01); **F23D 14/64** (2006.01)

CPC (source: EP)

B01F 23/191 (2022.01); **B01F 25/23** (2022.01); **B01F 25/31232** (2022.01); **B01F 25/31242** (2022.01); **B01F 25/312531** (2022.01); **F23D 14/62** (2013.01)

Citation (applicant)

US 6604938 B1 20030812 - BLAAUWWIEKEL PIET [NL], et al

Citation (search report)

[XDA] US 6604938 B1 20030812 - BLAAUWWIEKEL PIET [NL], et al

Cited by

EP3628924A1; CN113244872A; CN113567142A

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2653215 A1 20131023; EP 2653215 B1 20200101

DOCDB simple family (application)

EP 12164978 A 20120420