

Title (en)

Fuel gas-air mixing device for a combustion system

Title (de)

Brenngas-Luft-Mischeinrichtung für ein Verbrennungssystem

Title (fr)

Dispositif de mélange gaz de combustion-air pour un système de combustion

Publication

**EP 2287531 A3 20141231 (DE)**

Application

**EP 10171713 A 20100803**

Priority

DE 102009037890 A 20090818

Abstract (en)

[origin: EP2287531A2] The method involves premixing air and combustion gas, and adjusting outlet pressure (Pout) of the combustion gas equal to a reference pressure (Pref) before admission into a mixing space of a gas valve in two stages by a zero-pressure control valve (5) that is provided with servo pressure regulator valve unit (5a). Input side pressure (Pi) of combustion gas is reduced in one of the stages to a reference pressure (Pref) and a predetermined pressure portion (Px). The pressure is reduced to reference pressure constantly around the pressure portion in another stage. An independent claim is also included for a combustion system with a combustion gas-air-mixing device.

IPC 8 full level

**F23D 14/60** (2006.01); **F23N 1/02** (2006.01); **F23N 5/18** (2006.01)

CPC (source: EP)

**F23D 14/60** (2013.01); **F23N 1/022** (2013.01); **F23N 5/184** (2013.01); **F23K 2400/201** (2020.05); **F23K 2900/05001** (2013.01); **F23N 2225/06** (2020.01); **F23N 2235/16** (2020.01); **F23N 2235/18** (2020.01)

Citation (search report)

- [X] DE 29808799 U1 19990916 - HONEYWELL BV [NL]
- [X] US 2009092936 A1 20090409 - BUEZIS JAMES G [US], et al
- [A] DE 9316918 U1 19940113 - DUNGS KARL GMBH & CO [DE]
- [A] EP 0881435 A1 19981202 - DUNGS KARL GMBH & CO [DE]

Cited by

CN104100414A; US2014305406A1; US9273638B2

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 SE SI SK SM TR

Designated extension state (EPC)

BA ME RS

DOCDB simple family (publication)

**EP 2287531 A2 20110223**; **EP 2287531 A3 20141231**; **EP 2287531 B1 20200219**; DE 102009037890 A1 20110224;  
DE 102009037890 B4 20130718

DOCDB simple family (application)

**EP 10171713 A 20100803**; DE 102009037890 A 20090818