

Title (en)  
GAS VALVE UNIT HAVING TWO GAS OUTLETS

Title (de)  
GASVENTILEINHEIT MIT ZWEI GASAUSGÄNGEN

Title (fr)  
ENSEMBLE VALVE À GAZ POURVU DE DEUX SORTIES DE GAZ

Publication  
**EP 2572143 B1 20140716 (DE)**

Application  
**EP 11720432 A 20110510**

Priority  
• EP 10290271 A 20100520  
• EP 2011057481 W 20110510  
• EP 11720432 A 20110510

Abstract (en)  
[origin: WO2011144492A2] The subject matter of the invention is a gas valve unit for setting gas volumetric flows to a twin-circuit gas burner of a gas unit, in particular a gas cooking unit, wherein the gas valve unit has a gas inlet (3) and two gas outlets (11, 12). According to the invention, the gas volumetric flow to at least one of the gas outlets (12) can be set in a multiple-stage manner. In a zero position of the gas valve unit, the gas volumetric flow to both gas outlets (11, 12) is interrupted. In a switching position which is adjacent to the zero position, the gas volumetric flow which can be set in a multiple-stage manner is set to a maximum value. In order to set the gas volumetric flow which is fed to a first gas outlet (11), the gas valve unit has at least two first open/shut valves (15) and at least two first throttle points (17), preferably at least three first open/shut valves (15) and at least three first throttle points (17). In order to set the gas volumetric flow which is fed to a second gas outlet (12), the gas valve unit has at least two second open/shut valves (16) and at least two second throttle points (18), preferably at least four second open/shut valves (16) and at least four second throttle points (18). In order to control the open/shut valves (15, 16), at least two magnetically active bodies (5, 6) are provided, wherein a first magnetically active body (5) is formed by a ferromagnetic body and a second magnetically active body (6) is formed by a permanent magnet. At least one first open/shut valve (15.3) has a permanent magnet (13), in such a way that said first open/shut valve (15.3) can be controlled as a function of the position of the first magnetically active body (5) which is formed by a ferromagnetic body.

IPC 8 full level  
**F23N 1/00** (2006.01)

CPC (source: EP KR US)  
**F23D 14/58** (2013.01 - KR); **F23N 1/00** (2013.01 - EP KR US); **F24C 3/08** (2013.01 - KR); **F24C 3/12** (2013.01 - KR);  
**F23D 2900/14062** (2013.01 - EP US); **F23N 2235/18** (2020.01 - EP US); **F23N 2235/24** (2020.01 - EP US); **F23N 2237/02** (2020.01 - EP US);  
**F23N 2241/08** (2020.01 - EP US); **Y10T 137/87708** (2015.04 - EP US)

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 2011144492 A2 20111124; WO 2011144492 A3 20130418**; AU 2011254766 A1 20121220; AU 2011254766 B2 20140626;  
CN 103221746 A 20130724; CN 103221746 B 20151202; EA 022579 B1 20160129; EA 201291319 A1 20130628; EP 2572143 A2 20130327;  
EP 2572143 B1 20140716; ES 2496094 T3 20140918; HK 1187669 A1 20140411; KR 101715983 B1 20170313; KR 20130093507 A 20130822;  
PL 2572143 T3 20141231; US 2013059256 A1 20130307; US 9822975 B2 20171121

DOCDB simple family (application)  
**EP 2011057481 W 20110510**; AU 2011254766 A 20110510; CN 201180025061 A 20110510; EA 201291319 A 20110510;  
EP 11720432 A 20110510; ES 11720432 T 20110510; HK 14100678 A 20140122; KR 20127030199 A 20110510; PL 11720432 T 20110510;  
US 201113696817 A 20110510