

Title (en)  
Piezo gas valve

Title (de)  
Piezo Gasventil

Title (fr)  
Piézovanne de gaz

Publication  
**EP 2450630 A3 20180321 (DE)**

Application  
**EP 11008498 A 20111022**

Priority  
• DE 102010050144 A 20101103  
• AT 18352010 A 20101109

Abstract (en)  
[origin: EP2450630A2] The device has a gas guiding line (18) arranged between a gas supply pipe (3) and a gas discharge line (16). Regulating valves (10, 11) are arranged in the gas guiding line. A gas supply control line (19) is arranged parallel to the supply line, where a control volume (9) is provided in the control line. The volume is closed at one side by a membrane (8) that is connected with the gas discharge line. Piezo inlet and outlet valves (6, 7) are arranged downstream and upstream of the volume in the control line. A movable part of one of the regulating valves is connected with the membrane. The piezo inlet and outlet valves are formed as 3-way valves. The piezo outlet valve is formed as a 2-way valve. Independent claims are also included for the following: (1) a method for adjusting a gas flow (2) a method for measuring input pressure of a gas flow.

IPC 8 full level  
**F23N 1/00** (2006.01); **F23K 5/00** (2006.01)

CPC (source: EP)  
**F23K 5/007** (2013.01); **F23N 1/005** (2013.01); **F23N 2235/20** (2020.01)

Citation (search report)  
• [XY] DE 4339489 A1 19940825 - LANDIS & GYR BUSINESS SUPPORT [CH]  
• [Y] US 2006207654 A1 20060921 - HUANG CHUN-CHENG [TW]  
• [Y] US 2010127196 A1 20100527 - SAWADA YOHEI [JP], et al  
• [A] FR 2049481 A5 19710326 - VIDALENQ MAURICE  
• [A] DE 102005010684 B3 20060511 - HONEYWELL BV [NL]

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 2450630 A2 20120509; EP 2450630 A3 20180321**

DOCDB simple family (application)  
**EP 11008498 A 20111022**