

Title (en)  
MICRO GAS RHEOSTAT

Title (de)  
MIKRO-GAS RHEOSTAT

Title (fr)  
RHEOSTAT A MICRO-GAZ

Publication  
**EP 1008146 A4 20000614 (EN)**

Application  
**EP 97929874 A 19970606**

Priority  
• US 9709962 W 19970606  
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Abstract (en)  
[origin: WO9747013A1] A device and method for controlling small flows of gas for satellite orientation thrusters comprises a photoetched silicon body (10) etched to provide one or more particular flow paths, and optionally filters, wherein the flow path is defined by the silicon body (10) and a sealing glass layer (11) bonded thereto. Flow is controlled through the flow path(s) by heating the body (10) to decrease the gas flow.

IPC 1-7  
**G21D 1/00**; **H05B 1/00**

IPC 8 full level  
**B64G 1/26** (2006.01); **B64G 1/40** (2006.01); **F02K 9/80** (2006.01); **F03H 5/00** (2006.01); **F03H 99/00** (2009.01); **F15C 5/00** (2006.01); **G01N 30/32** (2006.01); **G05D 7/06** (2006.01)

CPC (source: EP)  
**B64G 1/26** (2013.01); **B64G 1/402** (2013.01); **F02K 9/805** (2013.01); **F15C 5/00** (2013.01); **B64G 1/401** (2013.01); **F05D 2250/82** (2013.01); **F05D 2250/84** (2013.01)

Citation (search report)  
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• [DA] US 4715852 A 19871229 - REINICKE ROBERT H [US], et al  
• [A] WO 9509988 A1 19950413 - RES INT INC [US]  
• [A] US 5267584 A 19931207 - SMITH RICHARD D [US]  
• [A] PATENT ABSTRACTS OF JAPAN vol. 011, no. 319 (P - 627) 17 October 1987 (1987-10-17)  
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• [DA] ANGELL, J.B., TERRY, S.C., BARTH, P.W.: "Silicon Micromechanical Devices", SCIENTIFIC AMERICAN, April 1983 (1983-04-01), US, pages 36 - 47, XP002101377  
• See references of WO 9747013A1

Designated contracting state (EPC)  
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