

Title (en)  
HIGH TO LOW GAS FLOW REGULATOR

Title (de)  
REGLER DER EINEN HOHEN GASDURCHFLUSS NACH EINEM NIEDRIGEN GASDURCHFLUSS REGELT

Title (fr)  
REGULATEUR DE FLUX GAZEUX

Publication  
**EP 1234220 A4 20041215 (EN)**

Application  
**EP 00980333 A 20001110**

Priority  
• US 0030937 W 20001110  
• US 16589399 P 19991112

Abstract (en)  
[origin: WO0135180A1] A diaphragm (30) operated regulator (2) usable for maintaining a preset gas pressure in a potable storage container, provides effective flow and pressure regulation. The device includes a gas balanced piston-tower (unit 3) that is freely supported, sealed, and operatively connected to a pressure biasing adjustment (26). The diaphragm assembly (11) permits axial movement relationships between valving channels (14), a valving-seal (9), and volume changes that take place in a low pressure chamber (22). The valve (2) converts axial movement of the diaphragm (30) into smooth transitional flow rates by varying the cross sectional areas of ingress and egress from an open valve position to a closed valve position and has the ability to preset maximum flow rates.

IPC 1-7  
**G05D 16/02**; **G05D 16/06**; **B60K 15/03**

IPC 8 full level  
**G05D 16/02** (2006.01); **G05D 16/06** (2006.01)

CPC (source: EP)  
**G05D 16/02** (2013.01); **G05D 16/065** (2013.01)

Citation (search report)  
• [A] EP 0678798 A2 19951025 - ITT [US]  
• [A] DE 2247029 A1 19730412 - GURTNER SA  
• [A] US 5711340 A 19980127 - GUSKY FRANK J [US], et al  
• See references of WO 0135180A1

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**WO 0135180 A1 20010517**; AU 1760901 A 20010606; EP 1234220 A1 20020828; EP 1234220 A4 20041215

DOCDB simple family (application)  
**US 0030937 W 20001110**; AU 1760901 A 20001110; EP 00980333 A 20001110