

Title (en)  
Gas booster.

Title (de)  
Pneumatischer Druckverstärker.

Title (fr)  
Amplificateur de pression pneumatique.

Publication  
**EP 0528714 A1 19930224 (EN)**

Application  
**EP 92402220 A 19920803**

Priority  
JP 22485791 A 19910809

Abstract (en)  
A first cylinder bore (7) for accommodating a first piston (8), a plunger bore (20) for accommodating a plunger (21), and a second cylinder bore (57) for accommodating a second piston (58) are provided in this order from above. The plunger (21) is fixed to the first piston (8). A cushion chamber (61), provided below the second piston (58), and an outlet (25b) of a second check valve (25) for gas discharge are connected to each other via a communicating passage (62). The second piston (58) is prevented from moving upward in excess of a set extent by a stopper (64) provided in the peripheral wall of the second cylinder bore (57). <IMAGE>

IPC 1-7  
**F01B 11/02; F01L 25/06; F04B 9/12; F04B 49/00**

IPC 8 full level  
**F04B 5/00** (2006.01); **F01B 11/02** (2006.01); **F01L 25/06** (2006.01); **F04B 5/02** (2006.01); **F04B 9/08** (2006.01); **F04B 9/127** (2006.01); **F04B 49/16** (2006.01)

CPC (source: EP)  
**F01B 11/02** (2013.01); **F01L 25/066** (2013.01); **F04B 9/127** (2013.01); **F04B 49/16** (2013.01)

Citation (search report)  
• [Y] FR 2267461 A1 19751107 - HOUDAILLE INDUSTRIES INC [US]  
• [Y] US 2711697 A 19550628 - GIBBS LLOYD T  
• [AD] US 4812109 A 19890314 - YONEZAWA KEITARO [JP]  
• [A] US 3835753 A 19740917 - BUNYARD A

Cited by  
EP2899400A4

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**EP 0528714 A1 19930224; EP 0528714 B1 19960228**; DE 69208563 D1 19960404; DE 69208563 T2 19960829; JP 2946005 B2 19990906; JP H0544632 A 19930223

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