

Title (en)  
Valved piston compressor

Title (de)  
Integriertes Ringventil für einen Kompressorkolben

Title (fr)  
Soupape annulaire intégrée dans le piston d'un compresseur

Publication  
**EP 1437508 A1 20040714 (EN)**

Application  
**EP 03000218 A 20030107**

Priority  
EP 03000218 A 20030107

Abstract (en)  
The device has a piston (1), received in a chamber of housing, including an outer peripheral portion with an annular groove (13) and an upper portion with openings. A sealing ring (2) is received in the annular groove of the piston. The openings of the piston are communicated with the groove and with the chamber when the sealing ring is loosely received in the upper portion of the groove.

IPC 1-7  
**F04B 39/00**; **F04B 53/12**

IPC 8 full level  
**F04B 39/00** (2006.01); **F04B 53/12** (2006.01)

CPC (source: EP)  
**F04B 39/0016** (2013.01); **F04B 53/121** (2013.01); **F04B 53/123** (2013.01)

Citation (applicant)  
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• US 6095758 A 20000801 - CHOU WEN-SAN [TW]  
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Citation (search report)  
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• [A] EP 0312597 A1 19890426 - PROIZV OB Z IM M I KALININA [SU]  
• [X] US 6200110 B1 20010313 - CHOU WEN SAN [TW]  
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• [A] US 4596515 A 19860624 - SIMON DONALD J [US], et al  
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