

Title (en)  
Compressor bleed valve

Title (de)  
Verdichterabblasventil

Title (fr)  
Soupape de soutirage d' un compresseur

Publication  
**EP 0936357 A3 20010110 (EN)**

Application  
**EP 99301044 A 19990212**

Priority  

- CA 2229352 A 19980213
- US 2321798 A 19980213

Abstract (en)  
[origin: EP0936357A2] A bleed valve 110 is in fluid communication with the compressor fluid flow path and the bypass fluid flow path 112 whereby a piston 126 extends radially of the valve 110 and includes a piston head 134 radially remote from the compressor fluid flow path. A pneumatic chamber 132 surrounds a portion of the piston head 134, and air from a source downstream of the impeller is introduced into the chamber. The piston including a valving member 136 and a rigid sleeve 130 connecting the piston head 134 to the valving means opens or closes the communication between the compressor flow path and the bypass flow path 112. A precompressed spring 144 is associated with the piston to normally urge the piston 120 radially outwardly relative to the compressor fluid flow path to a valve open position, and when the pneumatic pressure in the chamber surrounding the piston head overcomes the precompressed spring, the valve is closed. <IMAGE>

IPC 1-7  
**F04D 27/02; F01D 17/10**

IPC 8 full level  
**F01D 17/10** (2006.01); **F01D 25/24** (2006.01); **F02C 7/00** (2006.01); **F02C 9/18** (2006.01); **F02K 3/06** (2006.01); **F04D 27/02** (2006.01)

CPC (source: EP)  
**F01D 17/105** (2013.01); **F04D 27/0215** (2013.01); **F04D 27/023** (2013.01)

Citation (search report)  

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- [AD] US 5477673 A 19951226 - BLAIS DANIEL [CA], et al
- [AD] US 3809490 A 19740507 - HARNER K
- [A] US 4574585 A 19860311 - CONN FRANCIS E [US]
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Designated contracting state (EPC)  
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DOCDB simple family (publication)  
**EP 0936357 A2 19990818; EP 0936357 A3 20010110; EP 0936357 B1 20031105**; DE 69912488 D1 20031211; DE 69912488 T2 20040812;  
JP H11287133 A 19991019

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