

Title (en)
Compressor bleed valve

Title (de)
Verdichterabblasventil

Title (fr)
Soupape de soutirage d' un compresseur

Publication
EP 0936357 A2 19990818 (EN)

Application
EP 99301044 A 19990212

Priority
• CA 2229352 A 19980213
• US 2321798 A 19980213

Abstract (en)
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 (applicant)
• US 3809490 A 19740507 - HARNER K
• US 5477673 A 19951226 - BLAIS DANIEL [CA], et al

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EP1300567A3; CN112361061A; CN113606042A; US6981842B2; WO2005010414A1

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