

Title (en)  
Gas injection valve for a compressor, compressor with such a gas injection valve and method for operating a compressor with such a gas injection valve

Title (de)  
Gaseinlassventil für einen Kompressor, Kompressor mit einem derartigen Gaseinlassventil sowie Verfahren zum Betreiben eines Kompressors mit einem derartigen Gaseinlassventil

Title (fr)  
Valve d'entrée de gaz pour un compresseur, compresseur équipé d'une telle valve d'entrée de gaz et procédé de fonctionnement d'un compresseur équipé d'une telle valve d'entrée de gaz

Publication  
**EP 2584200 A3 20170712 (DE)**

Application  
**EP 12189089 A 20121018**

Priority  
DE 102011084811 A 20111019

Abstract (en)  
[origin: EP2584200A2] The gas inlet valve (1) has a piston unit (42) that is provided with piston portions. The piston portions are provided in corresponding barrel portion (22) of housing (2). A piston rod (38) is provided in housing and valve portion (57) of valve device (6) is mechanically coupled with a piston unit. A fluid conduit (39) and cylinder chamber of barrel portion is operatively connected with gas outlet portion (4). An actuating pressure is applied to another cylinder chamber of another barrel portion for lifting valve portion of valve seat (56). An independent claim is included for a method for operating compressor.

IPC 8 full level  
**F04C 28/26** (2006.01); **F04C 18/16** (2006.01); **F04C 28/06** (2006.01); **F04C 28/24** (2006.01); **F04C 29/12** (2006.01)

CPC (source: EP US)  
**F04C 28/06** (2013.01 - EP US); **F04C 28/24** (2013.01 - EP US); **F04C 28/26** (2013.01 - EP US); **F04C 29/124** (2013.01 - EP US); **F04C 29/126** (2013.01 - US); **F04C 18/16** (2013.01 - EP US); **F04C 2270/58** (2013.01 - EP US)

Citation (search report)

- [XDAI] DE 60307662 T2 20070823 - ATLAS COPCO AIRPOWER NV [BE]
- [AD] DE 60210088 T2 20060907 - ATLAS COPCO AIRPOWER NV [BE]
- [A] US 5848608 A 19981215 - ISHIGAKI TSUNEO [JP]
- [A] US 2011220214 A1 20110915 - MEDINA PETER JOHANN [US]
- [A] DE 102008031024 A1 20091231 - WABCO GMBH [DE]

Cited by  
CN109098971A; US2013136638A1; US9651048B2

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**DE 102011084811 B3 20121227**; EP 2584200 A2 20130424; EP 2584200 A3 20170712; EP 2584200 B1 20240417; EP 2584200 B8 20240605; US 2013136638 A1 20130530; US 9651048 B2 20170516

DOCDB simple family (application)  
**DE 102011084811 A 20111019**; EP 12189089 A 20121018; US 201213655259 A 20121018