

Title (en)  
METHOD FOR CONTROLLING THE SPEED OF A COMPRESSOR/VACUUM PUMP

Title (de)  
VERFAHREN ZUR REGELUNG DER GESCHWINDIGKEIT EINES VERDICHTERS/EINER VAKUUMPUMPE

Title (fr)  
PROCÉDÉ DE RÉGLAGE DE LA VITESSE D'UN COMPRESSEUR/POMPE À VIDE

Publication  
**EP 4027016 A1 20220713 (EN)**

Application  
**EP 22159108 A 20160107**

Priority

- US 201562103723 P 20150115
- US 201562103761 P 20150115
- BE 201505072 A 20150211
- BE 201505073 A 20150211
- EP 16712187 A 20160107
- BE 2016000004 W 20160107

Abstract (en)  
The present invention is directed to a method for regulating the speed of a compressor/vacuum element, said method comprising the steps of:- starting the compressor/vacuum element (1);- regulating the pressure within the compressor/vacuum element (1) by adjusting the volume of fluid flowing between a process channel (4) and the compressor/vacuum element (1) relative to the difference between the pressure value within said compressor/vacuum element (1) and a preset pressure value;characterized in that the method further comprises the steps of:- connecting the compressor/vacuum element (1) to a process channel (4) after the speed of the compressor/vacuum element (1) reaches a preset speed value; and- adjusting the speed of the compressor/vacuum element (1) such that the power of the compressor/vacuum element (1) is maintained at a relatively constant value.

IPC 8 full level  
**F04C 28/24** (2006.01); **F04C 25/02** (2006.01); **F04C 28/06** (2006.01); **F04C 28/08** (2006.01); **F04C 28/28** (2006.01); **F04C 29/00** (2006.01)

CPC (source: CN EP)  
**F04C 25/02** (2013.01 - CN EP); **F04C 28/06** (2013.01 - EP); **F04C 28/08** (2013.01 - EP); **F04C 28/24** (2013.01 - CN EP); **F04C 28/28** (2013.01 - CN EP); **F04C 29/0092** (2013.01 - EP); **F04C 29/12** (2013.01 - CN); **F04C 2270/0525** (2013.01 - CN); **F04C 2270/19** (2013.01 - EP)

Citation (applicant)

- US 2013323082 A1 20131205 - ROSINSKI ANDREW C [US], et al
- BE 201505072 A 20150211

Citation (search report)

- [XAI] WO 2007019651 A2 20070222 - ATLAS COPCO AIRPOWER NV [BE], et al
- [IJ] US 2012164017 A1 20120628 - FUJIMOTO HIDEKI [JP], et al
- [IJ] US 4664601 A 19870512 - UCHIDA RIICHI [JP], et al
- [IJ] GB 2116754 A 19830928 - HOERBIGER VENTILWERKE AG
- [A] WO 2004038222 A1 20040506 - BOC GROUP PLC [GB], et al
- [A] US 4699570 A 19871013 - BOHN HEINZ [DE]
- [A] EP 0338764 A2 19891025 - BOC GROUP PLC [GB]

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

DOCDB simple family (publication)  
**EP 4027016 A1 20220713**; EP 3245403 A1 20171122; EP 3245403 B1 20220309

DOCDB simple family (application)  
**EP 22159108 A 20160107**; EP 16712187 A 20160107