

Title (en)  
INVERTER-INTEGRATED ELECTRIC COMPRESSOR

Title (de)  
ELEKTRISCHER KOMPRESSOR MIT INTEGRIERTEM UMRICHTER

Title (fr)  
COMPRESSEUR ÉLECTRIQUE À INVERSEUR INTÉGRÉ

Publication  
**EP 2431611 B1 20160817 (EN)**

Application  
**EP 10774928 A 20100512**

Priority  
• JP 2010058021 W 20100512  
• JP 2009116275 A 20090513  
• JP 2009204684 A 20090904

Abstract (en)  
[origin: EP2431611A1] An inverter-integrated electric compressor configured in such a manner that a motor is incorporated within a compressor, a control circuit board is provided to an inverter section which is provided with a motor drive circuit for driving the motor, and electric component parts including the control circuit board is fixed within a containment space surrounded by a compressor housing, wherein the control circuit board is fixed within the housing space through a board-fixing section, and a board vibration-isolating member, said board vibration-isolating member consisting of an electrically insulative elastic material, is provided between the control circuit board and the board-fixing section. A frame member having a concave holding section may be loaded on the control circuit board, and a board vibration-isolating member, said board vibration-isolating member consisting of an electrically insulative elastic material, may be provided between the control circuit board and the frame member. The inverter-integrated electric compressor has highly reliable performance and configured in such a manner that the vibration of the control circuit board of the motor drive circuit is suppressed as much as possible.

IPC 8 full level  
**H05K 7/14** (2006.01); **F04B 39/12** (2006.01); **F04C 18/02** (2006.01); **F04C 23/00** (2006.01)

CPC (source: EP US)  
**F04B 39/121** (2013.01 - EP US); **F04C 23/008** (2013.01 - EP US); **F04C 18/0215** (2013.01 - EP US); **F04C 2240/30** (2013.01 - EP US); **F04C 2240/808** (2013.01 - EP US); **F04C 2270/12** (2013.01 - EP US)

Cited by  
CN112512232A; CN104533771A

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 SE SI SK SM TR

DOCDB simple family (publication)  
**EP 2431611 A1 20120321; EP 2431611 A4 20140402; EP 2431611 B1 20160817**; CN 102422023 A 20120418; JP 2010285980 A 20101224; US 2012063935 A1 20120315; WO 2010131671 A1 20101118

DOCDB simple family (application)  
**EP 10774928 A 20100512**; CN 201080021235 A 20100512; JP 2009204684 A 20090904; JP 2010058021 W 20100512; US 201013320530 A 20100512