

Title (en)
INVERTER-INTEGRATED ELECTRIC COMPRESSOR

Title (de)
ELEKTRISCHER KOMPRESSOR MIT INTEGRIERTEM UMRICHTER

Title (fr)
COMPRESSEUR ÉLECTRIQUE À INVERSEUR INTÉGRÉ

Publication
EP 2431611 A4 20140402 (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
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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)

Citation (search report)
• [XY] US 2003200761 A1 20031030 - FUNAHASHI KENJI [JP], et al
• [X] EP 1382847 A2 20040121 - TOYOTA JIDOSHOKKI KK [JP]
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• [Y] JP H05315772 A 19931126 - MATSUSHITA ELECTRIC IND CO LTD
• See references of WO 2010131671A1

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Designated contracting state (EPC)
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