

Title (en)

ELECTRIC COMPRESSOR HAVING DRIVE CIRCUIT INTEGRATED THEREINTO

Title (de)

ELEKTRISCHER KOMPRESSOR MIT DARIN INTEGRIERTEM STEUERKREIS

Title (fr)

COMPRESSEUR ÉLECTRIQUE COMPRENANT UN CIRCUIT DE COMMANDE INTÉGRÉ

Publication

EP 2378120 A1 20111019 (EN)

Application

EP 09833234 A 20091218

Priority

- JP 2009007027 W 20091218
- JP 2008322254 A 20081218

Abstract (en)

Disclosed is a drive circuit-integrated electric compressor, which is adapted to cool a power semiconductor element in a motor drive circuit with good efficiency without increasing the temperature of sucked refrigerant gas and while suppressing increase in pressure loss in a path for cooling. Specifically disclosed is a drive circuit-integrated electric compressor into which a motor drive circuit having a power semiconductor element is incorporated integrally, characterized in that the electric compressor is configured so that the power semiconductor element in the drive circuit is cooled by refrigerant gas to be discharged.

IPC 8 full level

F04B 39/06 (2006.01); **F04B 39/00** (2006.01); **F04C 18/02** (2006.01); **F04C 29/04** (2006.01)

CPC (source: EP US)

F04B 35/04 (2013.01 - EP US); **F04B 39/06** (2013.01 - EP US); **F04C 23/008** (2013.01 - EP US); **F04C 29/047** (2013.01 - EP US); **F04C 18/0215** (2013.01 - EP US); **F04C 2210/261** (2013.01 - EP US); **F04C 2210/263** (2013.01 - EP US); **F04C 2240/808** (2013.01 - EP US)

Cited by

IT201900014913A1; US11965505B2; WO2021032808A1

Designated contracting state (EPC)

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 2378120 A1 20111019; **EP 2378120 A4 20121226**; **EP 2378120 B1 20150211**; CN 102245899 A 20111116; JP 2010144607 A 20100701; JP 5531186 B2 20140625; US 2011256002 A1 20111020; WO 2010070927 A1 20100624

DOCDB simple family (application)

EP 09833234 A 20091218; CN 200980151583 A 20091218; JP 2008322254 A 20081218; JP 2009007027 W 20091218; US 200913141072 A 20091218