

Title (en)
HYBRID COMPRESSOR

Title (de)
HYBRIDKOMPRESSOR

Title (fr)
COMPRESSEUR HYBRIDE

Publication
EP 1865200 A1 20071212 (EN)

Application
EP 06730592 A 20060330

Priority
• JP 2006306644 W 20060330
• JP 2005105736 A 20050401

Abstract (en)
A hybrid compressor has a first compression mechanism driven only by an external drive source; a second compression mechanism driven only by a built-in electric motor; suction paths for sucking gas to be compressed into the first compression mechanism; communication paths for sucking the gas from the first compression mechanism side into an electric motor side suction chamber; and suction passageways for sucking the gas from the electric motor side suction chamber to the second compression mechanism side. The positions and/or number of the communication paths and/or the suction passageways, and/or the positions and/or number of communication openings, which are openings of the communication paths and opened at the electric motor side suction chamber, and/or suction openings, which are openings of the suction passageways, opened at the electric motor side suction chamber, and located on a side opposite to the side of the communication openings, are limited so that, with respect to at least a part of the gas sucked into the electric motor side suction chamber via the communication paths, a gas flow is formed from the communication openings to the suction openings. In this structure, a built-in electric motor section can be appropriately cooled over a wider area by the sucked gas, so that a rise in temperature of the motor section can be properly suppressed.

IPC 8 full level
F04C 18/02 (2006.01); **F04C 23/02** (2006.01); **F04C 29/04** (2006.01)

CPC (source: EP US)
F04C 18/0215 (2013.01 - EP US); **F04C 23/001** (2013.01 - EP US); **F04C 29/0085** (2013.01 - EP US); **F04C 2240/45** (2013.01 - EP US)

Cited by
ITBO20090466A1; EP2879275A1; EP3139470A1; WO2013186460A2; WO2013178942A1; WO2018154218A1; WO2015075364A2; US10033235B2; WO2013186459A2; EP2824800A1; US10008891B2

Designated contracting state (EPC)
DE FR

DOCDB simple family (publication)
EP 1865200 A1 20071212; **EP 1865200 A4 20080702**; CA 2601848 A1 20061012; CN 101147003 A 20080319; JP 2006283683 A 20061019; US 2009060754 A1 20090305; WO 2006106814 A1 20061012

DOCDB simple family (application)
EP 06730592 A 20060330; CA 2601848 A 20060330; CN 200680009415 A 20060330; JP 2005105736 A 20050401; JP 2006306644 W 20060330; US 90960106 A 20060330