

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  
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**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

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DE FR

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