

Title (en)  
VARIABLE CAPACITY COMPRESSOR WITH LINE-START BRUSHLESS PERMANENT MAGNET MOTOR

Title (de)  
KOMPRESSOR MIT VARIABLER VERDRÄNGUNG UND BÜRSTENLOSER PERMANENTMAGNETMOTOR MIT LINIENSTART

Title (fr)  
COMPRESSEUR À CAPACITÉ VARIABLE POURVU D'UN MOTEUR À AIMANT PERMANENT SANS BALAI À COURANT DE DÉMARRAGE EN LIGNE

Publication  
**EP 2622224 A4 20180110 (EN)**

Application  
**EP 11828155 A 20110930**

Priority  
• CN 201010537890 A 20100930  
• CN 2011080488 W 20110930

Abstract (en)  
[origin: WO2012041259A1] A variable capacity compressor assembly (20) configured for variable capacity modulation includes a housing (30), with a compressing mechanism (22) and a driving mechanism (24) disposed within the housing. The compressing mechanism includes compressing members (54, 56) that are shiftable relative to one another between loaded and unloaded states. The driving mechanism includes a line-start brushless permanent magnet motor (26). The line-start brushless permanent magnet motor includes a plurality of permanent magnets (102) that are mounted on, and extend generally axially along, a rotor core body (90) of the motor. Using the motor may reduce manufacture cost, maintain conveniently, and increase reliability.

IPC 8 full level  
**F04C 23/02** (2006.01); **F01C 21/08** (2006.01); **F04B 35/04** (2006.01); **F04C 18/02** (2006.01); **F04C 18/356** (2006.01); **F04C 23/00** (2006.01); **F04C 27/00** (2006.01); **F04C 28/24** (2006.01); **F04C 29/00** (2006.01)

CPC (source: EP US)  
**F01C 21/0863** (2013.01 - EP US); **F04B 17/03** (2013.01 - US); **F04B 35/04** (2013.01 - EP US); **F04C 11/008** (2013.01 - US); **F04C 23/008** (2013.01 - EP US); **F04C 23/02** (2013.01 - EP US); **F04C 27/005** (2013.01 - EP US); **F04C 28/24** (2013.01 - EP US); **F04C 29/0085** (2013.01 - EP US); **F04C 18/0215** (2013.01 - EP US); **F04C 18/3564** (2013.01 - EP US); **F04C 2240/40** (2013.01 - EP US)

Citation (search report)  
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• [A] US 2009028723 A1 20090129 - WALLIS FRANK S [US], et al  
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Designated contracting state (EPC)  
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