Title (en)
Motor-driven compressor

Title (de)
Motorbetriebener Verdichter

Title (fr)
Compresseur motorisé

Publication
EP 2072821 A2 20090624 (EN)

Application
EP 08171828 A 20081216

Priority
JP 2007326413 A 20071218

Abstract (en)
A compressor includes a housing having an inlet port, a compression mechanism for compression of refrigerant introduced via the inlet port into the housing, a motor having a stator core and a coil, an inverter for driving the motor, and a rotary shaft rotated by the motor thereby to drive the compression mechanism. The compression mechanism, the motor and the inverter are aligned in the order in the housing in axial direction of the rotary shaft. The coil has a coil end projecting toward the inverter from the stator core and being disposed adjacent to an inner peripheral surface of the housing. The inlet port is located so as to face the coil end. A recess is formed on the inner peripheral surface of the housing for communicating with the inlet port. The recess extends in the axial direction of the rotary shaft toward the inverter beyond the coil end.

IPC 8 full level
F04C 18/02 (2006.01); **F01C 21/10** (2006.01); **F04C 23/00** (2006.01); **F04C 29/04** (2006.01); **F04C 29/12** (2006.01)

CPC (source: EP US)
F04C 18/0215 (2013.01 - EP US); **F04C 23/008** (2013.01 - EP US); **F04C 29/12** (2013.01 - EP US); F04C 2240/808 (2013.01 - EP US)

Citation (applicant)
- JP 2000291557 A 20001017 - SANDEN CORP
- JP H0480554 A 19920313 - SEIKO EPSON CORP

Cited by
EP2679821A1; US8974197B2; US9234527B2

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 MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
EP 2072821 A2 20090624; CN 101463821 A 20090624; CN 101463821 B 20101208; JP 2009150234 A 20090709; US 2009162222 A1 20090625

DOCDB simple family (application)
EP 08171828 A 20081216; CN 200810186227 A 20081217; JP 2007326413 A 20071218; US 33586008 A 20081216