

Title (en)
SCROLL FLUID MACHINE

Title (de)
SPIRALFLUIDMASCHINE

Title (fr)
MACHINE A FLUIDE AVEC VOLUTE

Publication
EP 1865201 A4 20080723 (EN)

Application
EP 06730455 A 20060329

Priority
• JP 2006306507 W 20060329
• JP 2005106098 A 20050401

Abstract (en)
[origin: EP1865201A1] An electric motor-driven scroll compressor as a fluid machine includes a housing (10) containing a scroll unit (20) and an armature (38) for driving the scroll unit (20), and a refrigerant conduit located inside the housing (10) to guide a refrigerant toward the scroll unit (20). The refrigerant conduit includes a helical groove (64) as part thereof. The helical groove (64) is formed in the outer peripheral surface of a rotor (54) constituting the armature (38) and has opposite ends opening in the respective opposite end faces of the rotor (54).

IPC 8 full level
F04C 29/04 (2006.01); **F04C 18/02** (2006.01); **F04C 29/00** (2006.01)

CPC (source: EP US)
F04C 18/0215 (2013.01 - EP US); **F04C 23/008** (2013.01 - EP US); **F04C 29/0085** (2013.01 - EP US); **F04C 29/045** (2013.01 - EP US); **F04C 2240/803** (2013.01 - EP US)

Citation (search report)
• [XY] JP H05302581 A 19931116 - DAIKIN IND LTD
• [Y] JP 2004204791 A 20040722 - FUJITSU GENERAL LTD
• [A] EP 0306405 A1 19890308 - ZIMMERN BERNARD [US]
• See references of WO 2006106753A1

Cited by
EP2733357A1; EP2159425A3; US9243638B2

Designated contracting state (EPC)
DE FR

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EP 1865201 A1 20071212; **EP 1865201 A4 20080723**; **EP 1865201 B1 20101110**; CN 101151465 A 20080326; DE 602006018117 D1 20101223; JP 2006283694 A 20061019; US 2009148314 A1 20090611; WO 2006106753 A1 20061012

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