

Title (en)
Scroll fluid machine

Title (de)
Spiralf fluidmaschine

Title (fr)
Machine à spirale pour fluides

Publication
EP 1956244 A2 20080813 (EN)

Application
EP 08001720 A 20080130

Priority
JP 2007026620 A 20070206

Abstract (en)
A fluid machine(1) comprises a rotating shaft (12) extending in a cylindrical body part (3) of a closed container (2) and rotatably supported via a bearing (16), an electric motor (6) that drives the rotating shaft (12) by energization thereof, and has a rotor (7) and a stator (8), a scroll unit (30) accommodated above the electric motor (6), a frame member (14) that supports the rotating shaft (12) via the bearing (16), and flow-direction restricting means (80) that restricts a direction of lubrication oil flowing downward toward the electric motor (6) from the scroll unit (30) to inhibit the lubrication oil supplied from the reservoir (23) to the bearing (16) from flowing toward the stator (8). The flow-direction restricting means (80) includes a guide member (82) fixed to a top surface (7a) of the rotor (7) and guiding the downward-flowing lubrication oil to the top surface (7a), and a discharge passage (84) for causing the lubrication oil guided to the top surface (7a) to flow to the reservoir (23).

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

CPC (source: EP)
F04C 18/0215 (2013.01); **F04C 23/008** (2013.01); **F04C 29/0085** (2013.01); **F04C 29/026** (2013.01); **F04C 29/028** (2013.01); **F04C 29/045** (2013.01); **F04C 2210/1027** (2013.01); **F04C 2210/1072** (2013.01); **F04C 2210/261** (2013.01)

Citation (applicant)
JP H1047269 A 19980217 - MITSUBISHI ELECTRIC CORP

Cited by
JP2013174180A; US10227982B2; CN103967784A; CN109404289A; CN102052216A; US2021131412A1; US11713752B2; US2011165000A1; CN102144097A; EP2327882A4; EP2995817A1; CN105370576A; EP4060193A3; US2014056736A1; CN106979156A; EP2339180A4; CN110741162A; US2022082098A1; US11692547B2; US9581160B2; US11187230B2; US9494155B2; US9945381B2; USRE48456E; USRE48826E

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DE FR

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