

Title (en)
SCROLL COMPRESSOR

Title (de)
SPIRALVERDICHTER

Title (fr)
COMPRESSEUR À SPIRALE

Publication
EP 3978755 A4 20220810 (EN)

Application
EP 20836373 A 20200522

Priority
• JP 2019128815 A 20190710
• JP 2020020279 W 20200522

Abstract (en)
[origin: EP3978755A1] A drive shaft (40) is provided with a first oil flow passage (46) that extends on the shaft center of a main shaft (41) in the axial direction of the drive shaft (40) and that has an inflow hole (46b) opening in an upper end surface (42a) of an eccentric shaft (42), and a second oil flow passage (45a) that extends at the periphery of the first oil flow passage (46) in the axial direction and that has an annular cross-section. The second oil flow passage (45a) constitutes an oil supply path in which oil that has been transported by a pump (80) is supplied to a sliding portion (43) between the boss portion (38) and the eccentric shaft (42). A third oil flow passage (47) in which oil that has flowed out from the sliding portion (43) to a chamber (55) is sent to the inflow hole (46b) of the first oil flow passage (46) is included. The first oil flow passage (46) constitutes an oil drainage path in which oil that has flowed in through the inflow hole (46b) is returned to a storage portion (26).

IPC 8 full level
F04C 18/02 (2006.01); **F04C 23/00** (2006.01); **F04C 29/02** (2006.01)

CPC (source: EP US)
F04C 18/0215 (2013.01 - EP US); **F04C 23/008** (2013.01 - EP); **F04C 29/02** (2013.01 - US); **F04C 29/023** (2013.01 - EP); **F04C 29/025** (2013.01 - EP); **F04C 2240/30** (2013.01 - US); **F04C 2240/40** (2013.01 - US); **F04C 2240/603** (2013.01 - EP US)

Citation (search report)
• [IDA] JP 2018021493 A 20180208 - DAIKIN IND LTD
• [A] JP H05164079 A 19930629 - TOSHIBA CORP
• [A] DE 102011010501 A1 20110811 - DENSO CORP [JP], et al
• [A] JP 2013032729 A 20130214 - DENSO CORP
• [A] US 3802809 A 19740409 - VULLIEZ P
• See references of WO 2021005895A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3978755 A1 20220406; **EP 3978755 A4 20220810**; CN 113950581 A 20220118; JP 2021014801 A 20210212; US 2022128056 A1 20220428; WO 2021005895 A1 20210114

DOCDB simple family (application)
EP 20836373 A 20200522; CN 202080043291 A 20200522; JP 2019128815 A 20190710; JP 2020020279 W 20200522; US 202217570666 A 20220107