

Title (en)
COMPRESSOR WITH A POSITIVE DISPLACEMENT OIL SUPPLY PUMP

Title (de)
VERDICHTER

Title (fr)
COMPRESSEUR

Publication
EP 3524819 A3 20190828 (EN)

Application
EP 19154627 A 20190130

Priority
JP 2018022976 A 20180213

Abstract (en)
A compressor is provided capable of ensuring an opening area of a suction port in an oil supply pump even when a lubricant flows in a thickness direction of a pump rotor. An oil supply pump (40A) of a scroll compressor (1) includes: a first suction port (51A) through which a lubricant flows into a first oil suction chamber (42A); a second suction port (51B) through which the lubricant flows into a second oil suction chamber (48A); a first discharge port (51C) through which the lubricant flows from a first oil discharge chamber (42B); a second discharge port (51D) through which the lubricant flows from a second oil discharge chamber (48B); oil introducing channels (46R1, 47R1) provided correspondingly to the second suction port (51B) by concaving peripheral edge surfaces of an outer rotor (46) and an inner rotor (47); and oil lead-out channels (46R2, 47R2) provided correspondingly to the second discharge port (51D) by concaving peripheral edge surfaces of the outer rotor (46) and the inner rotor (47).

IPC 8 full level
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CPC (source: EP)
F04C 23/008 (2013.01); **F04C 29/023** (2013.01); **F04C 29/025** (2013.01); **F04C 29/12** (2013.01); **F04C 18/0215** (2013.01); **F04C 2240/809** (2013.01); **F04C 2250/10** (2013.01)

Citation (search report)

- [XY] JP 2003184776 A 20030703 - MITSUBISHI HEAVY IND LTD
- [XY] JP 3274900 B2 20020415
- [XY] JP H0942181 A 19970210 - MITSUBISHI HEAVY IND LTD
- [XY] US 5375986 A 19941227 - UKAI TETUZOU [JP], et al
- [XY] US 2011280749 A1 20111117 - HAHN GREGORY W [US]
- [YDA] JP H09264281 A 19971007 - SANYO ELECTRIC CO

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

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