

Title (en)
SCREW COMPRESSOR, AND REFRIGERATION CYCLE DEVICE

Title (de)
SCHRAUBENVERDICHTER UND KÜHLZYKLUSVORRICHTUNG

Title (fr)
COMPRESSEUR À VIS ET DISPOSITIF À CYCLE FRIGORIFIQUE

Publication
EP 3981987 A1 20220413 (EN)

Application
EP 19931683 A 20190605

Priority
JP 2019022282 W 20190605

Abstract (en)
A screw compressor includes a casing, a screw rotor, a gate rotor, and a slide valve. A low-pressure flow path allowing low-pressure refrigerant before being suctioned into the screw rotor to flow therethrough, a high-pressure flow path allowing high-pressure refrigerant discharged from a discharge port to flow therethrough, and a merge flow path merging the low-pressure flow path and the high-pressure flow path are provided. A pressure switching mechanism switching pressure of the refrigerant is disposed in at least one of the low-pressure flow path, the high-pressure flow path, and the merge flow path. The merge flow path applies pressure applying refrigerant, pressure of which is switched by the pressure switching mechanism, from a downstream-side end part to one of end parts of the slide valve.

IPC 8 full level
F04C 18/52 (2006.01)

CPC (source: EP)
F04C 18/52 (2013.01); **F04C 28/18** (2013.01); **F04C 2210/26** (2013.01)

Cited by
US2022349404A1; US11802563B2

Designated contracting state (EPC)
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Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
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