

Title (en)
SCREW COMPRESSOR AND FREEZER

Title (de)
SCHRAUBENVERDICHTER UND GEFRIERGERÄT

Title (fr)
COMPRESSEUR À VIS ET CONGÉLATEUR

Publication
EP 4112940 A4 20230426 (EN)

Application
EP 20922379 A 20200227

Priority
JP 2020008051 W 20200227

Abstract (en)
[origin: EP4112940A1] A screw compressor includes: a casing having a tubular shape; a screw rotor disposed to rotate inside the casing; and a motor disposed inside the casing and configured to drive the screw rotor. The casing includes, as a part thereof, a motor frame housing the motor, and the motor frame has a cooling hole in a high-temperature part where a temperature locally increases during operation, the cooling hole extending parallel to a rotation axis of the screw rotor, the cooling hole being configured to allow refrigerant from outside to pass therethrough.

IPC 8 full level
F04C 29/04 (2006.01); **F04C 23/00** (2006.01)

CPC (source: EP)
F04C 18/52 (2013.01); **F04C 23/008** (2013.01); **F04C 29/045** (2013.01); **F04C 29/042** (2013.01); **F04C 2240/30** (2013.01)

Citation (search report)

- [A] JP 2015001220 A 20150105 - DAIKIN IND LTD
- [A] EP 2873858 A1 20150520 - VALEO JAPAN CO LTD [JP]
- [A] US 4903497 A 19900227 - ZIMMERN BERNARD [US], et al
- [A] DE 102012102346 A1 20130926 - BITZER KUEHLMASCHINENBAU GMBH [DE]
- [A] JP 2017053280 A 20170316 - JOHNSON CONTROLS HITACHI AIR CONDITIONING TECH (HONGKONG) LTD
- See references of WO 2021171489A1

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

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
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