

Title (en)
ROTARY COMPRESSOR

Title (de)
ROTATIONSVERDICHTER

Title (fr)
COMPRESSEUR ROTATIF

Publication
EP 3597923 A4 20210120 (EN)

Application
EP 18767860 A 20180316

Priority
• JP 2017052710 A 20170317
• JP 2018010583 W 20180316

Abstract (en)
[origin: EP3597923A1] In a rotary compressor including first and second cylinders aligned in the axial direction of a drive shaft, a suction passage is formed to supply refrigerant supplied from an external device via a suction pipe to each compression chamber. The surface area of a region facing the suction passage in the second cylinder is smaller than the surface area of a region facing the suction passage in the first cylinder. A difference between the height of the second cylinder in the axial direction and the height of a piston provided in the compression chamber of the second cylinder is smaller than a difference between the height of the first cylinder in the axial direction and the height in the axial direction of a piston provided in the compression chamber of the first cylinder (A3-A4<A1-A2). With this arrangement, downsizing of the compressor and suppression of decrease in compressor efficiency are both achieved.

IPC 8 full level
F04C 29/12 (2006.01); **F01C 21/08** (2006.01); **F01C 21/10** (2006.01); **F04C 18/32** (2006.01); **F04C 18/356** (2006.01); **F04C 23/00** (2006.01); **F04C 29/00** (2006.01)

CPC (source: EP)
F01C 21/08 (2013.01); **F04C 18/356** (2013.01); **F04C 23/001** (2013.01); **F04C 23/008** (2013.01); **F04C 29/12** (2013.01); **F01C 21/102** (2013.01); **F04C 18/32** (2013.01); **F04C 2240/10** (2013.01); **F04C 2240/20** (2013.01); **F04C 2240/806** (2013.01); **F04C 2250/101** (2013.01); **F04C 2250/20** (2013.01); **F04C 2250/30** (2013.01); **F04C 2270/17** (2013.01)

Citation (search report)
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• [Y] JP H02218884 A 19900831 - TOSHIBA CORP
• [Y] CN 102644597 B 20140924 - GUANGDONG MIDEA TOSHIBA COMPRESSOR CORP
• [Y] US 6447274 B1 20020910 - HORIHATA HIDEYUKI [JP], et al
• See references of WO 2018169072A1

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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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DOCDB simple family (application)
EP 18767860 A 20180316; CN 201880017804 A 20180316; ES 18767860 T 20180316; JP 2018010583 W 20180316; JP 2019506315 A 20180316; MY PI2019005092 A 20180316