

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)  
• [Y] WO 03054391 A1 20030703 - LG ELECTRONICS INC [KR]  
• [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)  
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DOCDB simple family (publication)  
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**EP 18767860 A 20180316**; CN 201880017804 A 20180316; ES 18767860 T 20180316; JP 2018010583 W 20180316; JP 2019506315 A 20180316; MY PI2019005092 A 20180316