

Title (en)
ROTARY COMPRESSOR

Title (de)
ROTATIONSVERDICHTER

Title (fr)
COMPRESSEUR ROTATIF

Publication
EP 2589810 A4 20160518 (EN)

Application
EP 11800459 A 20110701

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Abstract (en)
[origin: EP2589810A1] To solve the conventional problems, according to a rotary compressor of the present invention, a second area surrounded by a lower inner surface angle portion which is formed on a lower end surface of the piston 32 and the end plate 35 which closes the lower end surface of the cylinder 30 is set greater than a first area surrounded by an upper inner surface angle portion which is formed on an upper end surface of the piston 32 and the end plate 34 which closes the upper end surface of the cylinder 30, and an angle formed between the lower end surface of the piston 32 and the lower inner surface angle portion is set smaller than an angle formed between the upper end surface of the piston 32 and the upper inner surface angle portion. According to this configuration, it is possible to reliably retain oil on lower end surface of the piston 32, enhance the reliability, float the piston 32 even if a range of tolerances is increased, and enhance efficiency and productivity of the rotary compressor.

IPC 8 full level
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CPC (source: EP)
F04C 18/30 (2013.01); **F04C 29/028** (2013.01); **F04C 2250/30** (2013.01)

Citation (search report)
• [A] EP 1640614 A1 20060329 - DAIKIN IND LTD [JP]
• [A] JP 2006177227 A 20060706 - HITACHI HOME & LIFE SOLUTIONS
• [A] JP 2010031733 A 20100212 - PANASONIC CORP
• See references of WO 2012001989A1

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CN113565761A

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