

Title (en)
Piston type compressor

Title (de)
Kolbenverdichter

Title (fr)
Compresseur à piston

Publication
EP 1384888 A2 20040128 (EN)

Application
EP 03015179 A 20030703

Priority
JP 2002196599 A 20020705

Abstract (en)
A piston type compressor includes a housing, a refrigerant gas passage and a rotary valve. The housing defines a suction pressure region. The refrigerant gas passage interconnects the suction pressure region with at least a compression chamber. The rotary valve includes a suction guiding hole which forms a part of the refrigerant gas passage. The suction guiding hole connects each compression chamber by turns with the suction pressure region as the rotary valve is rotated. The suction guiding hole communicates with a plurality of the compression chambers at least at early and last stages in a suction process. The suction guiding hole has a predetermined area per unit length in a rotational direction of the rotary valve. The predetermined area gradually increases from a preceding side of the rotation of the rotary valve to a middle and gradually decreases from the middle to a following side of the rotary valve. <IMAGE>

IPC 1-7
F04B 27/10; **F04B 39/00**

IPC 8 full level
F04B 39/10 (2006.01); **F04B 27/08** (2006.01); **F04B 27/10** (2006.01); **F04B 39/00** (2006.01)

CPC (source: EP US)
F04B 27/1018 (2013.01 - EP US); **F04B 39/0027** (2013.01 - EP US)

Cited by
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DE FR IT

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EP 1384888 A2 20040128; **EP 1384888 A3 20050309**; JP 2004036548 A 20040205; US 2004005224 A1 20040108

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EP 03015179 A 20030703; JP 2002196599 A 20020705; US 60761903 A 20030627