

Title (en)
ROTARY COMPRESSOR

Title (de)
ROTATIONSVERDICHTER

Title (fr)
COMPRESSEUR ROTATIF

Publication
EP 1805419 B1 20150722 (EN)

Application
EP 04793577 A 20041026

Priority
KR 2004002719 W 20041026

Abstract (en)
[origin: WO2006046784A1] Disclosed is a rotary compressor having two compression capacities. The rotary compressor includes: a driving shaft (13) being rotatable clockwise and counterclockwise, and having an eccentric portion (13a) of a predetermined size; a cylinder (21) forming a predetermined inner volume; a roller (22) installed rotatably on an outer circumference of the eccentric portion (13a) so as to contact an inner circumference of the cylinder (21), performing a rolling motion along the inner circumference and forming a fluid chamber (29) to suck and compress fluid along with the inner circumference; a vane (23) installed elastically in the cylinder (21) to contact the roller (22) continuously; upper and lower bearings (24, 25) installed respectively in upper and lower portions of the cylinder (21), for supporting the driving shaft (13) rotatably and sealing the inner volume hermetically; an oil path configured to allow oil to uniformly flow between the bearings (24, 25) and the driving shaft (13); discharge ports (26a, 26b) communicating with the fluid chamber (29); suction ports (27a-c) communicating with the fluid chamber (29) and being spaced apart from each other by a predetermined angle; and a valve assembly (100) for selectively opening any one of the suction ports (27a-c) according to rotation direction of the driving shaft (13).

IPC 8 full level
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CPC (source: EP)
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