

Title (en)
ROTARY COMPRESSOR

Title (de)
ROTATIONSVERDICHTER

Title (fr)
COMPRESSEUR ROTATIF

Publication
EP 1500820 A4 20050511 (EN)

Application
EP 03772798 A 20031117

Priority
• JP 0314555 W 20031117
• JP 2002359745 A 20021211

Abstract (en)
[origin: EP1500820A1] There is provided a rotary compressor in which a coil spring is provided to press a vane against a roller, and the contact area between the vane and a vane groove is secured by a simple and inexpensive construction, whereby the compressor size is decreased while the leakage of working fluid is restrained. <??>The rotary compressor includes a closed vessel 1; a cylinder 4 having a vane groove 4a, which is located in the closed vessel 1; a shaft having an eccentric portion 5a; a roller 6 which is rotatably fitted on the eccentric portion 5a of the shaft to eccentrically rotate in the cylinder 4; a vane 7 provided in the vane groove 4a in the cylinder 4 to reciprocate in the vane groove 4a while a tip end thereof is in contact with the roller 6; and a coil spring 20 for pressing the vane 7 against the roller 6. The vane 7 is provided with a spring hole 7d on the side opposite to the side on which the vane 7 is in contact with the roller 6, and the spring hole 7d contains at least a part of the coil spring 20. <IMAGE>

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

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Citation (search report)
• [A] GB 2111595 A 19830706 - SONG KEN HSU
• [A] US 4598559 A 19860708 - TOMAYKO EDWARD A [US], et al
• See references of WO 2004053335A1

Designated contracting state (EPC)
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