

Title (en)
SWINGING ROTARY COMPRESSOR.

Title (de)
SCHWINGENDER ROTATIONS-KOMPRESSOR.

Title (fr)
COMPRESSEUR ROTATIF OSCILLANT.

Publication
EP 0683321 A4 19960515 (EN)

Application
EP 95902284 A 19941201

Priority
• JP 9402020 W 19941201
• JP 30792493 A 19931208

Abstract (en)
[origin: WO9516136A1] A swinging rotary compressor comprising a cylinder (1) having therein a cylinder chamber (11), a roller (2) fitted in an eccentric shaft portion (31) of a driving shaft (3) and installed in the cylinder chamber (11), a blade (21) provided integrally with the roller (2) in such a manner as to protrude therefrom so as to divide the cylinder chamber (11) into a compression chamber (X) and a suction chamber (Y) and a supporting body (4) disposed in the cylinder (1) so as to freely swing therein and having a receiving groove (41) for receiving retractably the leading end of the blade (21), wherein an oil groove (22) is formed in the blade (21) and the axial end surfaces of a base portion of the roller (2) from which the blade protrudes in such a manner that the groove is open to the inner circumferential surface of the roller (2) at one end and to the protruding leading end of the blade (21) at the other end thereof, wherein a high pressure chamber (15) closed relative to the outside of the cylinder (1) is formed in the receiving groove (41) of the supporting body (4) on the back side of the blade (21), whereby sliding contact portions between the upper and lower end surfaces of the blade (21) and the roller (2), as well as between the blade (21) and the supporting body (4) for supporting the blade are positively lubricated to thereby improve the reliability.

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F04C 18/322 (2013.01 - EP); **F04C 18/356** (2013.01 - KR); **F04C 29/02** (2013.01 - EP)

Citation (search report)
• [Y] GB 729281 A 19550504 - VADIM STEPHANE MAKAROFF
• [Y] US 3269646 A 19660830 - PAUL AUGUST
• [A] FR 937086 A 19480806
• [A] FR 698476 A 19310131 - THOMSON HOUSTON COMP FRANCAISE
• See references of WO 9516136A1

Cited by
EP0882780A4; EP3643445A4; US6569347B1

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