

Title (en)
ROTARY COMPRESSOR LUBRICATION ARRANGEMENT

Publication
EP 0182993 B1 19890524 (EN)

Application
EP 85111798 A 19850918

Priority
US 67030784 A 19841113

Abstract (en)
[origin: EP0182993A1] In a rotary hermetic compressor an improved lubrication arrangement is provided for the sliding cylinder vanes (84). An oil pump (116) in the lower portion (62) of the crankshaft (26) extends into the oil sump (120) of the compressor. The oil pump comprises an axial aperture (116) in the crankshaft (26) which angles diagonally radially outwardly in the upward direction. Oil is pumped through this aperture (116) into an annulus (126) surrounding the crankshaft (26). A passageway (128) in the outboard bearing (56) conducts the oil radially outwardly from the annulus (126) and then upwardly against gravity to a vertical oil channel (134) which is open to both sides of the sliding vane (84) and adjacent thereto. The positive pressure provided by the oil pump will ensure that the oil channel (134) is filled with oil at all times. Excess oil exits at the upper end of the vane (84) through a relief in the main bearing (46) and then flows down around the cylinder (66) by gravity and into the oil sump (120).

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CPC (source: EP)
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Cited by
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EP 0182993 A1 19860604; EP 0182993 B1 19890524; AU 4914385 A 19860522; AU 582395 B2 19890323; BR 8505077 A 19860729; CA 1274494 A 19900925; CN 1003319 B 19890215; CN 85106952 A 19860723; DE 3570488 D1 19890629; DK 519685 A 19860514; DK 519685 D0 19851112; JP H0219316 B2 19900501; JP S61123792 A 19860611; MX 162615 A 19910603; PH 22163 A 19880601

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