

Title (en)
Scroll compressor.

Title (de)
Spiral-Verdichter.

Title (fr)
Compresseur du type à volute.

Publication
EP 0348601 A2 19900103 (EN)

Application
EP 89105199 A 19890323

Priority
US 21444688 A 19880701

Abstract (en)
A scroll-type hermetic compressor is disclosed including a hermetically sealed housing (12), fixed and orbiting scroll members (48, 50), a stationary frame member (52) including a thrust surface (55) adjacent the orbiting scroll member bottom surface (51), and a crankshaft (32) drivingly coupled to the orbiting scroll member. A seal (158) extends from a fixed location on the orbiting scroll member bottom surface toward the thrust surface and slidingly seals thereagainst, whereby fixed radially inner and outer portions (154, 156) of the scroll member are defined which are exposed to discharge and suction pressures (110, 98) for axial compliance. The seal consists of an annular groove (152) on the orbiting scroll member bottom surface in which an annular seal element (158) is unattachedly retained. The groove may be supplied with pressurized oil to aid in sealing with the seal element or, alternatively, to provide a hydrostatic seal without a seal element.

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F04C 18/02

IPC 8 full level
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CPC (source: EP)
F04C 18/0215 (2013.01); **F04C 27/005** (2013.01); **F04C 23/008** (2013.01)

Cited by
EP0498165A1; EP0498164A1; EP0505795A1; CN114893400A; EP3438457A4; US5306126A; EP0584466A3; DE102004029505B4; US2015308431A1; US9945380B2; DE102019200507A1; US10920774B2

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