

Title (en)
SCROLL COMPRESSOR

Title (de)
SPIRALVERDICHTER

Title (fr)
COMPRESSEUR À SPIRALES

Publication
EP 2708750 A1 20140319 (EN)

Application
EP 12786179 A 20120507

Priority
• JP 2011108350 A 20110513
• JP 2012061634 W 20120507

Abstract (en)
A housing which forms one portion of a compressor case and which supports a bearing for a main shaft has formed therein: an opening through which gas to be compressed is sucked; a suction space extending in a cylindrical-shape from the opening toward the inside of the compressor; a first gas passageway extending from the suction space in the direction of the axis of the main shaft; and a second gas passageway for connecting the first gas passageway and the space in which the bearing for the main shaft is disposed. A shell which forms the other portion of the compressor case and which is fastened to the housing has formed therein a third gas passageway for connecting the first gas passageway and the internal space of a compression mechanism. The scroll compressor is characterized in that the first gas passageway and the third gas passageway are connected to each other in a region located further on the outer side of the main shaft in the rotation radius direction than the movable region of the bottom plate of a movable scroll. As a result of the configuration, in the scroll-type compressor, the sliding portions of the bearing, a lip seal, a thrust plate, etc. can be lubricated while the degree of superheat of suction gas is suppressed.

IPC 8 full level
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CPC (source: EP US)
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Cited by
EP3418569A4; EP3315781A1

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