

Title (en)  
SCROLL COMPRESSOR

Title (de)  
SPIRALVERDICHTER

Title (fr)  
COMPRESSEUR À SPIRALES

Publication  
**EP 2708750 A4 20141126 (EN)**

Application  
**EP 12786179 A 20120507**

Priority  

- JP 2011108350 A 20110513
- JP 2012061634 W 20120507

Abstract (en)  
[origin: EP2708750A1] 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  
**F04C 18/02** (2006.01); **F04C 29/02** (2006.01); **F04C 29/04** (2006.01)

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**F04C 29/12** (2013.01 - EP US); **F04C 27/005** (2013.01 - EP US); **F04C 2240/56** (2013.01 - EP US); **F04C 2240/807** (2013.01 - EP US)

Citation (search report)  

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- [A] US 5395223 A 19950307 - KUROKI KAZUHIRO [JP], et al
- [A] EP 0133625 A1 19850306 - SANDEN CORP [JP]
- See references of WO 2012157453A1

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JP 5782296 B2 20150924; US 2014119972 A1 20140501; WO 2012157453 A1 20121122

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