

Title (en)

Scroll compressor and CO2 vehicle air conditioner with a scroll compressor

Title (de)

Scrollkompressor und CO2-Fahrzeugklimaanlage mit einem Scrollkompressor

Title (fr)

Compresseur à spirale et installation de climatisation de véhicule à CO2 dotée d'un compresseur à spirale

Publication

EP 2806164 B1 20150909 (DE)

Application

EP 13168729 A 20130522

Priority

EP 13168729 A 20130522

Abstract (en)

[origin: US2014348681A1] A scroll-type compressor for a CO2 vehicle air conditioning system, having a movable displacement spiral which is rotatably connected to an eccentric bearing and which engages into a counterpart spiral such that, between the windings of the displacement spiral and of the counterpart spiral, there are formed chambers which travel radially inward in order to compress the refrigerant and discharge the refrigerant into a pressure chamber, wherein the displacement spiral is arranged on the suction side and the counterpart spiral is arranged on the high-pressure side. The scroll-type compressor is wherein the eccentric bearing is arranged in the displacement chamber between the displacement spiral and the counterpart spiral and has a bearing bushing which is formed integrally with the displacement spiral and the base of which is in alignment with the face side of the windings of the displacement spiral.

IPC 8 full level

F04C 18/02 (2006.01)

CPC (source: EP US)

F04C 18/0207 (2013.01 - US); **F04C 18/0215** (2013.01 - EP US); **F04C 18/0253** (2013.01 - EP US); **F04C 18/0284** (2013.01 - EP US); **F04C 29/0057** (2013.01 - US); **F04C 29/026** (2013.01 - EP US); **F04C 29/0042** (2013.01 - EP US); **F04C 2210/261** (2013.01 - EP US)

Cited by

DE102017105175B3; DE102018217911A1; DE102017110913B3; EP3404264A1; US11131306B2; WO2020217066A1; WO2018162713A1; US10801496B2; DE102015120151A1; WO2017085256A1; US11448218B2

Designated contracting state (EPC)

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EP 2806164 A1 20141126; **EP 2806164 B1 20150909**; CN 104179682 A 20141203; CN 104179682 B 20180302; JP 2014228002 A 20141208; JP 6425417 B2 20181121; US 2014348681 A1 20141127; US 9512840 B2 20161206

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EP 13168729 A 20130522; CN 201410216902 A 20140521; JP 2014104948 A 20140521; US 201414282509 A 20140520