

Title (en)
SCROLL COMPRESSOR

Title (de)
SPIRALVERDICHTER

Title (fr)
COMPRESSEUR À SPIRALE

Publication
EP 2894338 A4 20150715 (EN)

Application
EP 13846644 A 20130828

Priority
• JP 2012230480 A 20121018
• JP 2013005068 W 20130828

Abstract (en)
[origin: EP2894338A1] To stably hold a tip seal without requiring a difficult processing when providing the tip seal also on a step part of a wrap of a 3D-type scroll compressor. In a scroll compressor 1, a tip seal 40, which is interposed between a wrap 21 and an end plate 300 of the mating scroll, is configured of an outer peripheral tip seal 41 provided on the outer peripheral side of a step part 21C, a step tip seal 42 provided on the step part 21C, and an inner peripheral tip seal 43 provided on the inner peripheral side of the step part 21C. The step tip seal 42 is provided continuously on a leading end part T of an outer peripheral-side wrap 21B, a side surface part S of the step part 21C opposite to a stepped wall 30C, and a leading end part T of an inner peripheral-side wrap 21A. A border Bd between the step tip seal 42 and the inner peripheral tip seal 43 always lies on the outside of a circular path R which the step part 21C traces as the scroll orbits.

IPC 8 full level
F04C 18/02 (2006.01); **F01C 19/00** (2006.01); **F04C 23/00** (2006.01); **F04C 27/00** (2006.01)

CPC (source: EP)
F04C 18/0215 (2013.01); **F04C 18/0276** (2013.01); **F04C 18/0284** (2013.01); **F04C 27/005** (2013.01); **F01C 19/005** (2013.01); **F04C 23/008** (2013.01)

Citation (search report)
• No further relevant documents disclosed
• See references of WO 2014061186A1

Cited by
EP4325056A3; US10968908B2; US11002274B2; US11078906B2; US10975866B2; US11204034B2; US11236749B2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2894338 A1 20150715; **EP 2894338 A4 20150715**; **EP 2894338 B1 20160302**; JP 2014080940 A 20140508; JP 5931689 B2 20160608; WO 2014061186 A1 20140424

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