

Title (en)
SCROLL COMPRESSOR

Title (de)
SPIRALVERDICHTER

Title (fr)
COMPRESSEUR À SPIRALE

Publication
EP 3575601 A4 20200108 (EN)

Application
EP 18744823 A 20180117

Priority
• JP 2017012609 A 20170127
• JP 2018001196 W 20180117

Abstract (en)
[origin: EP3575601A1] According to a scroll compressor of the present invention, a fixed scroll mirror plate 11a is provided with an intermediate pressure extraction hole 41 through which intermediate pressure of a compression chamber 15 is taken out, an intermediate pressure communication path 42 for bringing the intermediate pressure extraction hole 41 and an intermediate pressure region B into communication with each other is formed in a fixed scroll 11, a high pressure communication path 71 for bringing the intermediate pressure extraction hole 41 and a high pressure space in a hermetic container 1 into communication with each other is formed in the fixed scroll 11, and a balance valve 73 is provided in a high pressure opening 72 of a high pressure communication path 71. According to this, intermediate pressure in mid-flow of compression of the compression chamber 15 is adjusted to predetermined pressure, and a compression ratio of a low compression ratio condition in which an orbiting scroll 12 separates from the fixed scroll 11 can be made small.

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Citation (search report)
• [A] EP 0144169 A2 19850612 - SANDEN CORP [JP]
• [A] US 2007036661 A1 20070215 - STOVER CHRISTOPHER [US]
• [A] WO 2016052503 A1 20160407 - HITACHI APPLIANCES INC [JP]
• [A] US 2004067144 A1 20040408 - IIDA NOBORU [JP], et al
• See references of WO 2018139307A1

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

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