

Title (en)
SCROLL COMPRESSOR AND AIR CONDITIONER

Title (de)
KOMPRESSOR DER SPIRALBAUART UND KLIMAANLAGE

Title (fr)
COMPRESSEUR A SPIRALE ET CONDITIONNEUR D'AIR

Publication
EP 2116726 B1 20161207 (EN)

Application
EP 07708326 A 20070209

Priority
JP 2007052392 W 20070209

Abstract (en)
[origin: EP2116726A1] A scroll compressor and an air conditioner in which improvement of performance is achieved by a gas injection cycle and increase in manufacturing cost is prevented are provided. A scroll compressor includes a fixed scroll (23) and a turning scroll (25) each having an end panel (23a, 25a) formed with a convoluted wall body (23b, 25b) extending upright from one side surface thereof, and forms a plurality of compression chambers for compressing refrigerant by being engaged with each other, characterized in that a shoulder (42) is provided on one side surface of the end panel (23a) of the fixed scroll (23), and the wall body (25b) of the turning scroll (25) is provided on an upper edge thereof with a misaligned portion (45) corresponding to the shoulder (42) of the end panel (23a), a supply unit (17p) for supplying the refrigerant supplied from an outside to the plurality of compression chambers in the course of compression of the refrigerant, and the refrigerant is supplied from the supply unit (17p) while at least the plurality of compression chambers include the shoulder (42) and the misaligned portion (45) being apart from each other.

IPC 8 full level
F04C 18/02 (2006.01); **F04C 28/26** (2006.01); **F04C 29/04** (2006.01); **F04C 18/08** (2006.01)

CPC (source: EP US)
F04C 18/0215 (2013.01 - EP US); **F04C 18/0261** (2013.01 - EP US); **F04C 18/0269** (2013.01 - EP US); **F04C 18/0276** (2013.01 - EP US)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 2116726 A1 20091111; **EP 2116726 A4 20140312**; **EP 2116726 B1 20161207**; US 2010024467 A1 20100204; WO 2008096445 A1 20080814

DOCDB simple family (application)
EP 07708326 A 20070209; JP 2007052392 W 20070209; US 44322807 A 20070209