

Title (en)
SCROLL COMPRESSOR

Title (de)
SPIRALVERDICHTER

Title (fr)
COMPRESSEUR À VOLUTES

Publication
EP 3130805 A4 20180110 (EN)

Application
EP 14888621 A 20140409

Priority
JP 2014002017 W 20140409

Abstract (en)
[origin: US2016348680A1] A scroll compressor includes a body container that is a hermetically sealed container; a fixed scroll that is fixed to an upper portion of an inside of the body container; an orbiting scroll that is disposed below the fixed scroll; a rotary drive shaft including an oil passing hole that connects an upper side and a lower side in the shaft; a frame that is fixed to an inner peripheral surface of the body container to slidably support the orbiting scroll; a thrust plate that is disposed between a lower surface of the orbiting scroll and a thrust support surface of the frame; an Oldham ring that is accommodated in the frame; and an orbiting-side Oldham groove that guides the Oldham ring, wherein a circumferential groove that communicates with the orbiting-side Oldham groove is formed in the lower surface of the orbiting scroll.

IPC 8 full level
F04C 18/02 (2006.01); **F01C 17/06** (2006.01); **F04C 29/02** (2006.01); **F04C 23/00** (2006.01)

CPC (source: EP US)
F01C 17/066 (2013.01 - EP US); **F04C 18/0215** (2013.01 - EP US); **F04C 29/0057** (2013.01 - US); **F04C 29/0071** (2013.01 - US); **F04C 29/023** (2013.01 - US); **F04C 29/025** (2013.01 - EP US); **F04C 29/028** (2013.01 - EP US); **F04C 23/008** (2013.01 - EP); **F04C 2240/10** (2013.01 - US); **F04C 2240/20** (2013.01 - US); **F04C 2240/30** (2013.01 - US); **F04C 2240/603** (2013.01 - EP US)

Citation (search report)
• [A] US 4824344 A 19890425 - KIMURA TADASHI [JP], et al
• [A] JP H0441987 A 19920212 - MITSUBISHI ELECTRIC CORP
• [A] US 2011091342 A1 20110421 - CAILLAT JEAN-LUC M [US]
• See references of WO 2015155802A1

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

DOCDB simple family (publication)
US 2016348680 A1 20161201; CN 105917120 A 20160831; EP 3130805 A1 20170215; EP 3130805 A4 20180110;
JP WO2015155802 A1 20170413; WO 2015155802 A1 20151015

DOCDB simple family (application)
US 201415111385 A 20140409; CN 201480073390 A 20140409; EP 14888621 A 20140409; JP 2014002017 W 20140409;
JP 2016512489 A 20140409