

Title (en)
COMPRESSOR

Title (de)
VERDICHTER

Title (fr)
COMPRESSEUR

Publication
EP 3015710 A4 20160720 (EN)

Application
EP 14831427 A 20140616

Priority
• JP 2013161337 A 20130802
• JP 2014003201 W 20140616

Abstract (en)
[origin: EP3015710A1] Provided is a compressor with reduced noise. This compressor is provided with an orbiting scroll (30) which is rotatably linked to an eccentric shaft portion of a main shaft (17), a fixed scroll (20) which forms a compression chamber (PR) which compresses the refrigerant by opposing the orbiting scroll and which, in the end plate (21), has an upstream discharge port (24) through which the compressed refrigerant passes and which communicates with the compression chamber (PR), and a discharge cavity (25) which communicates with the downstream side of the upstream discharge port (24) and has a larger volume than the upstream discharge port (24). The upstream discharge port (24) is provided with an open end (24B) on the upstream side and an open end (24A) on the downstream side. The upstream open end (24B) is eccentric relative to the central axis (C) of the fixed scroll (20) and the central axis (C2) of the discharge cavity (25) is in the area occupied by the downstream open end (24A).

IPC 8 full level
F04C 18/02 (2006.01); **F04C 29/06** (2006.01)

CPC (source: EP)
F04C 18/0215 (2013.01); **F04C 18/0261** (2013.01); **F04C 23/008** (2013.01); **F04C 29/06** (2013.01); **F04C 29/128** (2013.01); **F04C 2250/102** (2013.01)

Citation (search report)
• [X] WO 2012080612 A2 20120621 - DANFOSS COMMERCIAL COMPRESSORS [FR], et al
• [X] WO 2009155091 A2 20091223 - EMERSON CLIMATE TECHNOLOGIES [US], et al
• [X] US 2013078128 A1 20130328 - AKEI MASAO [US]
• [X] US 2011206548 A1 20110825 - DOEPKER ROY J [US]
• See references of WO 2015015695A1

Cited by
US11493040B2; EP4336043A3

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 3015710 A1 20160504; EP 3015710 A4 20160720; EP 3015710 B1 20200318; CN 105247214 A 20160113; CN 105247214 B 20171003; JP 2015031206 A 20150216; JP 6147605 B2 20170614; WO 2015015695 A1 20150205

DOCDB simple family (application)
EP 14831427 A 20140616; CN 201480030026 A 20140616; JP 2013161337 A 20130802; JP 2014003201 W 20140616