

Title (en)
SCROLL COMPRESSOR

Title (de)
SCROLLVERDICHTER

Title (fr)
COMPRESSEUR À SPIRALES

Publication
EP 2940304 A1 20151104 (EN)

Application
EP 15165844 A 20150430

Priority
KR 20140053652 A 20140502

Abstract (en)
The scroll compressor includes a casing comprising a rotation shaft; a discharge cover fixed inside the casing to partition the inside of the casing into a suction space and a discharge space; a back pressure plate defining a back pressure chamber for accommodating a refrigerant, a floating plate to define the back pressure chamber together with the back pressure plate, the floating plate including a contact part that is capable of contacting the discharge cover, and a coating layer defining an outer surface of the contact part. The discharge cover has a first hardness value, the floating plate has a second hardness value, and the coating layer has a third hardness value, and the third hardness value is less than the first hardness value and greater than the second hardness value.

IPC 8 full level
F04C 23/00 (2006.01); **F04C 15/00** (2006.01); **F04C 18/02** (2006.01)

CPC (source: EP US)
F04C 15/0011 (2013.01 - EP US); **F04C 15/0023** (2013.01 - EP US); **F04C 18/0215** (2013.01 - EP US); **F04C 18/0223** (2013.01 - US); **F04C 23/008** (2013.01 - EP US); **F04C 2230/91** (2013.01 - EP US); **F04C 2230/92** (2013.01 - EP US)

Citation (applicant)
KR 101378886 B1 20140328 - LG ELECTRONICS INC [KR]

Citation (search report)

- [XAYI] US 2014023540 A1 20140123 - HEIDECKER MATTHEW J [US], et al
- [YA] WO 2009055009 A2 20090430 - EMERSON CLIMATE TECHNOLOGIES [US], et al
- [A] US 6821092 B1 20041123 - GEHRET NATALIE [US], et al

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 2940304 A1 20151104; **EP 2940304 B1 20170301**; CN 105041635 A 20151111; CN 105041635 B 20170616; KR 102199570 B1 20210107; KR 20150126534 A 20151112; US 2015316054 A1 20151105

DOCDB simple family (application)
EP 15165844 A 20150430; CN 201510221368 A 20150504; KR 20140053652 A 20140502; US 201514702989 A 20150504