

Title (en)
Rotary compressor

Title (de)
Rotationsverdichter

Title (fr)
Compresseur rotatif

Publication
EP 2530324 A3 20170412 (EN)

Application
EP 12170385 A 20120601

Priority
JP 2011124892 A 20110603

Abstract (en)
[origin: EP2530324A2] According to one embodiment, a rotary compressor sucks in refrigerant gas from the low pressure side of a refrigeration cycle and discharges compressed refrigerant gas to the high pressure side. The rotary compressor includes a first compressing unit (12S) and a second compressing unit (12T) arranged one on top of another with a partition board (140) therebetween. The partition board (140) is provided with a vertical hole (141) and a horizontal hole (143). After the front end (144a) of an injection copper tube (144) to inject a refrigerant liquid is loose fit in the horizontal hole (143), an injection liner (145) having an outer diameter larger than the inner diameter of the injection copper tube (144) is inserted into the injection copper tube (144) from the back end (144b) and is pressed up to the front end (144a) to increase the diameter of the front end (144a) of the injection copper tube (144) such that the injection copper tube (144) is tight fit in the horizontal hole (143).

IPC 8 full level
F04C 18/356 (2006.01); **F04C 23/00** (2006.01); **F04C 29/00** (2006.01)

CPC (source: EP US)
F04C 18/3564 (2013.01 - EP US); **F04C 23/001** (2013.01 - EP US); **F04C 23/008** (2013.01 - EP US); **F04C 29/0007** (2013.01 - EP US); **F04C 2230/60** (2013.01 - EP US); **F04C 2240/805** (2013.01 - EP US); **F04C 2240/806** (2013.01 - EP US)

Citation (search report)

- [I] JP S58149493 A 19830905 - DAIKIN IND LTD
- [A] JP 2004324652 A 20041118 - DAIKIN IND LTD
- [A] EP 2246570 A1 20101103 - DAIKIN IND LTD [JP]
- [A] JP 2001263282 A 20010926 - SANYO ELECTRIC CO
- [A] JP S58220991 A 19831222 - SANYO ELECTRIC CO, 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 2530324 A2 20121205; EP 2530324 A3 20170412; EP 2530324 B1 20200715; AU 2012202072 A1 20121220; AU 2012202072 B2 20140814; AU 2012202072 B9 20140925; CN 102808768 A 20121205; CN 102808768 B 20150513; JP 2012251485 A 20121220; US 2012308425 A1 20121206

DOCDB simple family (application)
EP 12170385 A 20120601; AU 2012202072 A 20120411; CN 201210177207 A 20120531; JP 2011124892 A 20110603; US 201213454704 A 20120424