

Title (en)

Refrigerant compressor and refrigerant cycle device including the same

Title (de)

Kältemittelverdichter und Kältemittel-Kreislauf mit demselben

Title (fr)

Compresseur de réfrigérant et circuit réfrigérant intégré le comprenant

Publication

**EP 1770341 A3 20100721 (EN)**

Application

**EP 06121257 A 20060926**

Priority

JP 2005287332 A 20050930

Abstract (en)

[origin: EP1770341A2] An object is to provide a refrigerant compressor which solves a disadvantage that an oil flows into a refrigerant circuit in the outside of the refrigerant compressor during introduction of the oil and which minimizes an amount of the oil to be introduced and which can secure a sufficient amount of the oil, and a refrigerant cycle device including the refrigerant compressor. A rotary compressor (refrigerant compressor) comprises, in a sealed container (12), an electromotive element (14) as a driving element, and a rotary compression mechanism part (18) driven by this electromotive element (14) and constituted of first and second rotary compression elements (32,34), and discharges a refrigerant compressed by the rotary compression mechanism part (18) from the sealed container, the compressor further comprising an oil reservoir (80) constituted in a bottom part of the sealed container; and a servicing pipe (100) attached to the sealed container to introduce the refrigerant and the oil into the sealed container.

IPC 8 full level

**F04B 39/02** (2006.01); **F04B 39/12** (2006.01); **F25B 9/00** (2006.01); **F25B 31/00** (2006.01); **F25B 1/04** (2006.01); **F25B 45/00** (2006.01)

CPC (source: EP KR US)

**F04B 39/023** (2013.01 - EP US); **F04B 39/123** (2013.01 - EP US); **F04C 29/00** (2013.01 - KR); **F04C 29/02** (2013.01 - KR); **F25B 1/04** (2013.01 - KR); **F25B 9/008** (2013.01 - EP US); **F25B 31/002** (2013.01 - EP US); **F04C 18/356** (2013.01 - EP US); **F04C 2240/806** (2013.01 - EP US); **F04C 2240/809** (2013.01 - EP US); **F25B 1/04** (2013.01 - EP US); **F25B 45/00** (2013.01 - EP US)

Citation (search report)

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- [Y] EP 0478939 A2 19920408 - ENEA MATTEI SPA [IT]
- [Y] JP 2004309012 A 20041104 - SANYO ELECTRIC CO

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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

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

**EP 1770341 A2 20070404**; **EP 1770341 A3 20100721**; CN 1940295 A 20070404; CN 1940295 B 20120627; JP 2007100513 A 20070419; KR 20070037306 A 20070404; TW 200720545 A 20070601; US 2007074534 A1 20070405

DOCDB simple family (application)

**EP 06121257 A 20060926**; CN 200610128173 A 20060906; JP 2005287332 A 20050930; KR 20060083069 A 20060830; TW 95128101 A 20060801; US 52657406 A 20060926