

Title (en)

ROTARY COMPRESSOR WITH AN INSTALLED CIRCULATION CONTROL UNIT

Title (de)

ROTATIONSVERDICHTER MIT INSTALLIERTER ZIRKULATIONSSTEUEREINHEIT

Title (fr)

COMPRESSEUR ROTATIF DOTÉ D'UNE UNITÉ DE COMMANDE DE CIRCULATION INSTALLÉE

Publication

EP 2633195 A2 20130904 (EN)

Application

EP 11797165 A 20111012

Priority

- TH 1001001581 A 20101012
- TH 2011000047 W 20111012

Abstract (en)

[origin: WO2012050538A2] This rotary compressor with an installed circulation control unit utilizes a method to control a rotary compressor to start or stop injecting refrigerant at a predetermined velocity by means of an electromagnetic coil that is installed onto the rotary compressor. The end of the electromagnetic coil is tenon-shaped and enters into a mortise that is formed on a vane or an arm of the rotary compressor so that the operation alternates between suction and compression at a predetermined period, enabling control of the rate of refrigerant circulation. In addition, the rotary compressor does not restart during its operation, which enhances the performance of the air-conditioning system, saves costs and energy, and enables the air-conditioning system to be easily maintained and repaired.

IPC 8 full level

F04C 28/06 (2006.01); **F01C 21/08** (2006.01)

CPC (source: EP US)

F01C 21/0827 (2013.01 - EP US); **F04C 18/00** (2013.01 - US); **F04C 18/3564** (2013.01 - EP US); **F04C 28/06** (2013.01 - EP US); **F04C 2240/81** (2013.01 - EP US); **F04C 2240/811** (2013.01 - EP US)

Citation (search report)

See references of WO 2012050538A2

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)

WO 2012050538 A2 20120419; **WO 2012050538 A3 20130808**; **WO 2012050538 A9 20130620**; BR 112013009070 A2 20160719; CN 103282667 A 20130904; EP 2633195 A2 20130904; RU 2013121564 A 20141120; US 2013251566 A1 20130926

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