

Title (en)

Oil return algorithm for capacity modulated compressor

Title (de)

Ölrückföhralgorithmus für Verdichter mit Kapazitätsmodulation

Title (fr)

Algorithme de retour d'huile pour compresseur à capacité modulée

Publication

EP 2161519 A1 20100310 (EN)

Application

EP 09251462 A 20090601

Priority

US 20316408 A 20080903

Abstract (en)

A control for a compressor motor is programmed to operate the motor at at least one low capacity and at least one higher capacity. The control is operable to estimate an amount of oil which will have migrated from said compressor shell, at least when the compressor is operating at the lower capacity rate. The motor control moves the compressor motor from the lower capacity to at least one higher capacity once the estimated quantity of oil exceeds a predetermined limit. The capacity may be related to space.

IPC 8 full level

F25B 31/00 (2006.01)

CPC (source: EP KR US)

F04C 18/02 (2013.01 - KR); **F04C 28/00** (2013.01 - KR); **F04C 29/12** (2013.01 - KR); **F25B 31/004** (2013.01 - EP US); **F25B 49/022** (2013.01 - EP US); **F25B 2500/16** (2013.01 - EP US)

Citation (search report)

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- [X] US 5067326 A 19911126 - ALSENZ RICHARD H [US]
- [A] US 2003051494 A1 20030320 - OHYA SHIGEKI [JP]

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CN110986430A; WO2023036614A1

Designated contracting state (EPC)

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 SE SI SK TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

EP 2161519 A1 20100310; CN 101666305 A 20100310; CN 101666305 B 20141203; JP 2010059962 A 20100318; KR 20100027946 A 20100311; US 2010050673 A1 20100304

DOCDB simple family (application)

EP 09251462 A 20090601; CN 200910147499 A 20090616; JP 2009164618 A 20090713; KR 20090042416 A 20090515; US 20316408 A 20080903