

Title (en)

Air conditioner and method of controlling the same

Title (de)

Klimaanlage und Steuerungsverfahren dafür

Title (fr)

Climatisation et procédé de commande correspondant

Publication

EP 2375193 A3 20111130 (EN)

Application

EP 10188151 A 20101020

Priority

KR 20100030120 A 20100401

Abstract (en)

[origin: EP2375193A2] An air conditioner and a method of operating the same are provided. The air conditioner may include a plurality of compressors (100,100',100''), each of which may include a casing that stores oil therein, and an oil level detecting device (102,102',102'') that detects an oil level within the casing. Once oil levels within each of the plurality of compressors are detected, oil may be redistributed between the plurality of compressors without interrupting a normal operation of the air conditioner. Oil may be transferred from a compressor having an oil level greater than a desired amount to a compressor having an oil level less than the desired amount. If there remains a compressor that contains an insufficient amount of oil after redistributing the oil among the plurality of compressors, an oil collecting operation may be performed.

IPC 8 full level

F25B 31/00 (2006.01)

CPC (source: EP KR US)

F25B 31/004 (2013.01 - EP KR US); **F25B 43/02** (2013.01 - KR); **F25B 2400/06** (2013.01 - KR); **F25B 2400/075** (2013.01 - EP KR US); **F25B 2500/16** (2013.01 - EP US); **F25B 2700/03** (2013.01 - EP KR US)

Citation (search report)

- [A] WO 2009054571 A1 20090430 - LG ELECTRONICS INC [KR], et al
- [A] US 2008209924 A1 20080904 - YOON PIL HYUN [KR], et al
- [A] WO 2008044807 A2 20080417 - LG ELECTRONICS INC [KR], et al
- [A] US 2008087028 A1 20080417 - KIM IN KYU [KR], et al
- [A] US 2009107173 A1 20090430 - YOON PIL HYUN [KR], et al

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CN107923403A; EP3334940A4; US10641268B2

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)

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DOCDB simple family (application)

EP 10188151 A 20101020; CN 201010547580 A 20101112; KR 20100030120 A 20100401; US 95891510 A 20101202