

Title (en)  
Controlling method for an air conditioner.

Title (de)  
Steuerverfahren für eine Klimaanlage

Title (fr)  
Procédé pour controller un climatiseur

Publication  
**EP 2525170 A1 20121121 (EN)**

Application  
**EP 12167765 A 20120511**

Priority  
KR 20110047170 A 20110519

Abstract (en)  
Disclosed is an air conditioner in which a plurality of compressors (110) retains a constant oil level. The air conditioner includes a plurality of compressors (110) configured to compress a refrigerant, a plurality of oil separators (171) connected respectively to the plurality of compressors and serving to separate oil contained in the refrigerant compressed in and discharged from the compressors, a plurality of oil return pipes (177) configured to allow the oil separated in the plurality of oil separators to be returned into the plurality of compressors, a plurality of oil return valves (176) installed respectively to the plurality of oil return pipes to open or close the plurality of oil return pipes respectively, and a resistor (175) configured to connect the plurality of oil return pipes to each other.

IPC 8 full level  
**F25B 43/02** (2006.01); **F25B 31/00** (2006.01)

CPC (source: EP KR US)  
**F25B 31/004** (2013.01 - EP US); **F25B 43/02** (2013.01 - EP KR US); **F25B 45/00** (2013.01 - KR); **F25B 2400/075** (2013.01 - EP US); **F25B 2400/13** (2013.01 - EP US); **F25B 2600/2515** (2013.01 - EP US); **F25B 2700/03** (2013.01 - EP US)

Citation (search report)  
• [XYI] WO 2008044807 A2 20080417 - LG ELECTRONICS INC [KR], et al  
• [Y] WO 2009054571 A1 20090430 - LG ELECTRONICS INC [KR], et al  
• [A] EP 1659351 A2 20060524 - LG ELECTRONICS INC [KR]  
• [A] EP 1657505 A1 20060517 - LG ELECTRONICS INC [KR]  
• [A] EP 1659350 A1 20060524 - LG ELECTRONICS INC [KR]  
• [A] EP 2204621 A2 20100707 - LG ELECTRONICS INC [KR]

Cited by  
EP3604973A1; JP2020020492A

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 2525170 A1 20121121**; **EP 2525170 B1 20200415**; CN 102788449 A 20121121; CN 102788449 B 20160127; JP 2012242081 A 20121210; JP 5596745 B2 20140924; KR 20120129111 A 20121128; US 2012291464 A1 20121122

DOCDB simple family (application)  
**EP 12167765 A 20120511**; CN 201210156529 A 20120518; JP 2012114794 A 20120518; KR 20110047170 A 20110519; US 201213473276 A 20120516