

Title (en)  
AIR CONDITIONER

Title (de)  
KLIMAANLAGE

Title (fr)  
CLIMATISEUR

Publication  
**EP 2538155 A1 20121226 (EN)**

Application  
**EP 11742367 A 20110215**

Priority  
• JP 2010030526 A 20100215  
• JP 2011053165 W 20110215

Abstract (en)  
An air conditioner includes oil balancing pipes (30a to 30c) that extract lubricating oil stored in an oil separator (7) and each of compressors (3a to 3c) in which a specified amount of the lubricating oil or more is stored, a distributor (43) that distributes the lubricating oil led from the oil separator (7) and the compressors (3a to 3c) to a plurality of channels, and oil return pipes (55-57) that communicatively connect the distribution channels of the distributor (43) and a refrigerant inlet pipe of each of the compressors (3a to 3c) to return the lubricating oil to each of the compressors (3a to 3c), wherein the distributor (43) can be fixed easily and reliably by mounting and fixing the distributor (43) to a refrigerant inlet pipe (16) in a horizontal attitude along a horizontal portion of the refrigerant inlet pipe (16) to reduce production variation and also to prevent a pipe fatigue fracture by avoiding pipe stress concentration accompanying the compressors (3a to 3c) being driven.

IPC 8 full level  
**F25B 1/00** (2006.01); **F24F 1/30** (2011.01); **F25B 41/00** (2006.01); **F25B 41/04** (2006.01)

CPC (source: EP US)  
**F24F 1/26** (2013.01 - EP US); **F24F 1/30** (2013.01 - EP US); **F24F 3/065** (2013.01 - EP US); **F25B 31/004** (2013.01 - EP US); **F25B 13/00** (2013.01 - EP US); **F25B 2313/0233** (2013.01 - EP US); **F25B 2313/0253** (2013.01 - EP US); **F25B 2313/02741** (2013.01 - EP US); **F25B 2400/075** (2013.01 - EP US)

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

DOCDB simple family (publication)  
**EP 2538155 A1 20121226**; **EP 2538155 A4 20180404**; **EP 2538155 B1 20230719**; CN 102753913 A 20121024; CN 102753913 B 20151021; JP 5655014 B2 20150114; JP WO2011099628 A1 20130617; US 2012304685 A1 20121206; WO 2011099628 A1 20110818

DOCDB simple family (application)  
**EP 11742367 A 20110215**; CN 201180009458 A 20110215; JP 2011053165 W 20110215; JP 2011553917 A 20110215; US 201213572948 A 20120813