

Title (en)  
AIR CONDITIONER

Title (de)  
KLIMAANLAGE

Title (fr)  
CLIMATISEUR

Publication  
**EP 2924371 B1 20210908 (EN)**

Application  
**EP 15160070 A 20150320**

Priority  
KR 20140032959 A 20140320

Abstract (en)  
[origin: EP2924371A1] The present invention relates to an air conditioner for injecting a refrigerant into a compressor in a simple configuration by two steps. The air conditioner includes a compressor for compressing a refrigerant; a condenser for condensing the refrigerant compressed at the compressor; an evaporator for evaporating the refrigerant condensed at the condenser; and an injection module for separating the refrigerant flown from the condenser to the evaporator into a vapor-phase refrigerant and liquid-phase refrigerant, expanding the separated vapor-phase refrigerant and injecting the expanded refrigerant into the compressor, expanding and evaporating some of the separated liquid-phase refrigerant and injecting the expanded and evaporated refrigerant into the compressor according to the embodiment of the present invention.

IPC 8 full level  
**F25B 1/10** (2006.01); **F25B 40/00** (2006.01); **F25B 40/02** (2006.01); **F25B 49/02** (2006.01)

CPC (source: EP US)  
**F24F 5/001** (2013.01 - US); **F25B 41/385** (2021.01 - EP); **F25B 41/39** (2021.01 - EP); **F25B 49/02** (2013.01 - EP US); **F25B 1/10** (2013.01 - EP US); **F25B 41/385** (2021.01 - US); **F25B 41/39** (2021.01 - US); **F25B 2400/053** (2013.01 - EP US); **F25B 2400/054** (2013.01 - EP US); **F25B 2400/23** (2013.01 - EP US); **F25B 2600/02** (2013.01 - EP US); **F25B 2600/2509** (2013.01 - EP US); **F25B 2600/2513** (2013.01 - EP US); **F25B 2700/195** (2013.01 - EP US); **F25B 2700/21151** (2013.01 - EP US); **F25B 2700/21152** (2013.01 - EP US); **F25B 2700/2116** (2013.01 - EP US); **F25B 2700/2117** (2013.01 - EP US)

Cited by  
CN113091235A

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 2924371 A1 20150930; EP 2924371 B1 20210908**; KR 102242777 B1 20210420; KR 20150109748 A 20151002; US 2015267930 A1 20150924

DOCDB simple family (application)  
**EP 15160070 A 20150320**; KR 20140032959 A 20140320; US 201514663608 A 20150320