

Title (en)
AIR CONDITIONER

Title (de)
KLIMAANLAGE

Title (fr)
CLIMATISEUR

Publication
EP 3040655 A4 20161130 (EN)

Application
EP 14867837 A 20141117

Priority
• JP 2013249294 A 20131202
• JP 2014080366 W 20141117

Abstract (en)
[origin: EP3040655A1] In this air conditioner, at least one indoor unit (3A, 3B) is connected to an outdoor unit (2) via crossover gas piping (4) and crossover liquid piping (5), and a gas-side shutoff valve (36) and a liquid-side shutoff valve (35) are provided in the crossover gas piping (4) and the crossover liquid piping (5) in the vicinity of a gas-side operation valve (19) and a liquid-side operation valve (20) provided in a coolant circuit (22) of the outdoor unit (2). An outdoor control device (27) is equipped with: an emergency shutdown control function for closing the liquid-side shutoff valve (35) in response to an emergency shutoff signal, causing operation to continue as a cooling cycle and, upon a low-pressure reaching a set pressure, closing the gas-side shutoff valve (36) and stopping the operation of the air conditioner (1); and an output terminal (37) for outputting a shutoff signal to the gas-side shutoff valve (36) and the liquid-side shutoff valve (35).

IPC 8 full level
F25B 49/02 (2006.01); **F24F 11/02** (2006.01); **F25B 1/00** (2006.01); **F25B 5/02** (2006.01); **F25B 6/02** (2006.01); **F25B 13/00** (2006.01)

CPC (source: EP)
F25B 13/00 (2013.01); **F25B 49/005** (2013.01); **F25B 2313/0233** (2013.01); **F25B 2313/02741** (2013.01); **F25B 2400/13** (2013.01); **F25B 2700/1931** (2013.01); **F25B 2700/1933** (2013.01)

Citation (search report)
• [A] EP 2264379 A1 20101222 - DAIKIN IND LTD [JP]
• [A] JP 2011202833 A 20111013 - TOSHIBA CARRIER CORP
• See references of WO 2015083529A1

Cited by
EP3637016A4; US11002467B2; US11248829B2; US11209195B2; US11609031B2

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 3040655 A1 20160706; EP 3040655 A4 20161130; JP 2015105813 A 20150608; JP 6407522 B2 20181017; WO 2015083529 A1 20150611

DOCDB simple family (application)
EP 14867837 A 20141117; JP 2013249294 A 20131202; JP 2014080366 W 20141117