

Title (en)
Checking Air Conditioning System Installation

Title (de)
System zum Überprüfen einer Klimaanlage

Title (fr)
Vérification d'un dispositif de conditionnement d'air

Publication
EP 1691139 B1 20161116 (EN)

Application
EP 05100920 A 20050209

Priority
KR 20040064243 A 20040816

Abstract (en)
[origin: EP1691139A2] A multi air conditioning system and a method for inspecting pipe connection thereof, in which the pipe connection is rapidly inspected and the reliability in inspecting the pipe connection is improved. The method for inspecting the multi air conditioning system, which includes a plurality of indoor units and a mode converter having a plurality of heating valve-cooling valve sets for controlling refrigerant flowing into the indoor units, includes: changing opened and closed states of one heating valve-cooling valve set out of the plural heating valve-cooling valve sets during the operation of the system; detecting the indoor unit having a heat exchanger, the temperature of which varies corresponding to the change of the opened and closed states of the heating valve-cooling valve set; and determining, when the indoor unit having the heat exchanger, the temperature of which varies, matches with the heating valve-cooling valve set having the changed opened and closed states thereof, that the connection between the indoor unit having the heat exchanger, the temperature of which varies, and the heating valve-cooling valve set, having the changed the opened and closed states thereof, is normal.

IPC 8 full level
F24F 3/06 (2006.01); **F24F 11/00** (2006.01); **F25B 49/00** (2006.01)

CPC (source: EP KR US)
F24F 11/30 (2017.12 - EP); **F24F 11/49** (2017.12 - EP KR US); **F25B 41/00** (2013.01 - KR); **F25B 49/00** (2013.01 - KR); **F25B 49/005** (2013.01 - EP); **F24F 11/52** (2017.12 - EP); **F25B 13/00** (2013.01 - EP); **F25B 2313/007** (2013.01 - EP); **F25B 2313/0231** (2013.01 - EP)

Cited by
US11231216B2; EP2137466A4

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 1691139 A2 20060816; **EP 1691139 A3 20101222**; **EP 1691139 B1 20161116**; CN 100380058 C 20080409; CN 1737443 A 20060222; JP 2006057993 A 20060302; JP 3980601 B2 20070926; KR 101116679 B1 20120613; KR 20060015862 A 20060221

DOCDB simple family (application)
EP 05100920 A 20050209; CN 200510009058 A 20050217; JP 2005038303 A 20050215; KR 20040064243 A 20040816