

Title (en)
AIR CONDITIONER REFRIGERANT FILLING METHOD

Title (de)
VERFAHREN ZUR FÜLLUNG EINES KLIMAAANLAGEN-KÜHLGERÄTES

Title (fr)
PROCÉDÉ D'INTRODUCTION DE FRIGORIGÈNE POUR DISPOSITIF DE CONDITIONNEMENT D'AIR

Publication
EP 2562493 B1 20180328 (EN)

Application
EP 11771899 A 20110412

Priority
• JP 2010097957 A 20100421
• JP 2011059061 W 20110412

Abstract (en)
[origin: EP2562493A1] Provided is an air-conditioner refrigerant injecting method that enables precise and quick injection of an optimum amount of refrigerant . In an air-conditioner (1) refrigerant injecting method of injecting a specified amount of refrigerant into a closed-cycle refrigerant circuit (3) in which an outdoor unit (10) and a plurality of indoor units (11) to (16) are connected via refrigerant pipes (2), the pipe lengths and pipe diameters of the refrigerant pipes (2A) to (2M) connecting the outdoor unit (10) and the plurality of indoor units (11) to (16) installed on the respective floors of a structure (40) are identified insofar as they can be reliably measured or estimated, the minimum required refrigerant amount required by the air conditioner (1) is calculated on the basis of the pipe lengths and pipe diameters, the resulting amount of refrigerant is additionally injected in advance, and then the refrigerant is automatically injected by an automatic refrigerant injection function until a specified injection amount is reached.

IPC 8 full level
F25B 45/00 (2006.01)

CPC (source: EP)
F25B 45/00 (2013.01); **F25B 2345/001** (2013.01); **F25B 2500/01** (2013.01); **F25B 2500/19** (2013.01); **F25B 2700/04** (2013.01)

Cited by
US11293647B2

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 2562493 A1 20130227; **EP 2562493 A4 20160914**; **EP 2562493 B1 20180328**; CN 102695930 A 20120926; CN 102695930 B 20160413; JP 2011226715 A 20111110; JP 5705453 B2 20150422; WO 2011132564 A1 20111027

DOCDB simple family (application)
EP 11771899 A 20110412; CN 201180004616 A 20110412; JP 2010097957 A 20100421; JP 2011059061 W 20110412