

Title (en)
REFRIGERATING/AIR CONDITIONING SYSTEM HAVING REFRIGERANT LEAKAGE DETECTING FUNCTION, REFRIGERATOR/AIR
CONDITIONER AND METHOD FOR DETECTING LEAKAGE OF REFRIGERANT

Title (de)
KÜHL-/LUFTKLIMATISIERUNGSSYSTEM MIT KÄLTEMITTELLECKAGEERFASSUNGSFUNKTION, KÜHLVORRICHTUNG/KLIMAANLAGE UND
VERFAHREN ZUR ERFASSUNG VON KÄLTEMITTELLECKAGE

Title (fr)
SYSTÈME DE RÉFRIGÉRATION/DE CLIMATISATION DE L'AIR AYANT UNE FONCTION DE DÉTECTION DE FUITE DE RÉFRIGÉRANT,
RÉFRIGÉRATEUR/CLIMATISEUR D'AIR ET PROCÉDÉ DE DÉTECTION D'UNE FUITE DE RÉFRIGÉRANT

Publication
EP 1970651 B1 20190731 (EN)

Application
EP 06810364 A 20060921

Priority
JP 2006318704 W 20060921

Abstract (en)
[origin: EP1970651A1] A refrigerating air-conditioning system and a method for detecting a refrigerant leakage capable of automatically detecting a slight refrigerant leakage, while performing an air-conditioning operation, regardless of an environmental condition or installation condition, is provided. Accordingly, a judging means for judging the refrigerant leakage of a refrigerating cycle on the basis of a past data relating to a past refrigerant volume of the refrigerating cycle at a past time point and a new data relating to the refrigerant volume at a time point after performing a plurality of times of stopping and starting up operations of the refrigerating cycle since the past time point, is provided in the refrigerating air-conditioning system constituting a refrigerating cycle by connecting an outdoor unit including a compressor, an outdoor heat exchanger, and a throttling device, and one or a plurality of indoor units each including an indoor heat exchanger and a throttling device with communication piping.

IPC 8 full level
F25B 49/00 (2006.01)

CPC (source: EP)
F25B 49/005 (2013.01); **F25B 2500/222** (2013.01); **F25B 2600/01** (2013.01)

Cited by
US10145595B2; FR3038055A1; CN104364585A; CN102893095A; EP2333461A4; EP3287708A4; AU2010254339B2; CN103392102A; CN106768732A; EP2472203A4; EP3115717A4; US10589598B2; US10245916B2; US10684051B2; EP2894420A4; EP3051236A4; EP3255360A1; DE102016110585A1; EP3428554A1; AU2017203711B2; EP2354724A3; EP2546588A4; WO2019166843A1; WO2010138355A1; US10369863B2; US11359846B2; US10724772B2; US10161661B2; US10414243B2; US2016146521A1; CN105627649A; EP3193105A3; US11885516B2; US11940188B2; US11441827B2; US11448441B2; US11747065B2; US10675948B2; US11241939B2; US11712946B2; US9791195B2; US11420496B2; US11919364B2; US8806877B2; US9696078B2; US10006684B2; US10399412B2; US10527332B2; WO2024033707A1; US10427496B2; US10967709B2; US11780292B2; US9677799B2; US10081226B2; US10703173B2; US11479086B2; US11609032B2; US8402816B2; US8973380B2; US10562372B2; US11131471B1; US11713893B2; US11732916B2; US11754324B2; EP3255360B1

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