

Title (en)

Heat pump position checking method in heat pump system and heat pump system

Title (de)

Verfahren zur Überprüfung der Wärmepumpenposition in einem Wärmepumpensystem und Wärmepumpensystem

Title (fr)

Procédé de vérification de position de pompe à chaleur dans un système de pompe à chaleur et système de pompe à chaleur

Publication

EP 2600080 A3 20140319 (EN)

Application

EP 12194517 A 20121128

Priority

JP 2011262439 A 20111130

Abstract (en)

[origin: EP2600080A2] There is provided a heat pump position checking method in a heat pump system capable of correctly checking the positional relationship among heat pumps and achieving efficient operation and improvement in reliability and a heat pump system. A heat pump system (1) is a heat pump system in which a plurality of heat pumps (2) are connected to a water pipe (11), and a water heat exchanger of each heat pump (2) exchanges heat with water flowing through the water pipe (11). The heat pump system (1) includes an operation control unit (14) which puts one heat pump (2) into cooling operation or heating operation, a water temperature detection unit (15) which detects the temperatures of water in the water pipe (11) flowing into the plurality of heat pumps (2), and a positional relationship estimation unit (16) which estimates the positional relationship among the plurality of heat pumps (2) on the basis of the heat pump (2) in cooling operation or heating operation and the temperatures of water detected at the plurality of heat pumps (2).

IPC 8 full level

F25B 13/00 (2006.01); **F25B 30/02** (2006.01); **F25B 49/02** (2006.01); **F25D 17/02** (2006.01)

CPC (source: EP)

F25B 13/00 (2013.01); **F25B 30/02** (2013.01); **F25B 49/02** (2013.01); **F25D 17/02** (2013.01); **F25B 2313/003** (2013.01); **F25B 2313/02741** (2013.01); **F25B 2313/0314** (2013.01); **F25B 2400/06** (2013.01); **F25B 2400/061** (2013.01)

Citation (search report)

- [X] US 5097670 A 19920324 - YOSHIKAWA TOMIO [JP], et al
- [X] US 4171621 A 19791023 - TRELEASE STEPHEN W [US]
- [A] US 2004000155 A1 20040101 - CLINE LEE R [US], et al

Cited by

CN103791672A

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 2600080 A2 20130605; **EP 2600080 A3 20140319**; JP 2013113556 A 20130610; JP 5812829 B2 20151117

DOCDB simple family (application)

EP 12194517 A 20121128; JP 2011262439 A 20111130