

Title (en)
HEAT PUMP WATER HEATER AND METHOD FOR CONTROLLING THE SAME

Title (de)
WÄRMEPUMPENWASSERERHITZER UND STEUERVERFAHREN DAFÜR

Title (fr)
CHAUFFE-EAU À POMPE À CHALEUR ET PROCÉDÉ DE COMMANDE DE CELUI-CI

Publication
EP 2913596 A1 20150902 (EN)

Application
EP 15156717 A 20150226

Priority
JP 2014037551 A 20140227

Abstract (en)
In a case where a stored hot water temperature target value and a stored hot water amount target value for a next day and afterwards are changed depending on use result data, if it is determined that a minimum heat storage amount is excessive from the use result data, the stored hot water temperature target value is decreased with priority, and if the stored hot water temperature target value reaches a lower limit value, the stored hot water amount target value is decreased. If it is determined that the minimum heat storage amount is insufficient from the use result data, the stored hot water amount target value is increased with priority, and if the stored hot water amount target value reaches an upper limit value, the stored hot water temperature target value is increased. Thus, energy saving can be achieved.

IPC 8 full level
F24D 19/10 (2006.01); **F24D 17/00** (2006.01); **F24H 1/18** (2006.01)

CPC (source: EP US)
F24D 17/02 (2013.01 - EP); **F24D 19/1054** (2013.01 - EP US); **F24D 19/1063** (2013.01 - EP US); **F24H 15/104** (2022.01 - EP US); **F24H 15/172** (2022.01 - EP US); **F24H 15/174** (2022.01 - EP US); **F24H 15/375** (2022.01 - EP US); **F24H 15/421** (2022.01 - EP US); **F24D 2220/042** (2013.01 - EP); **F24D 2220/044** (2013.01 - EP); **F24D 2220/048** (2013.01 - EP); **F24H 15/156** (2022.01 - EP US)

Citation (applicant)
JP 2004060948 A 20040226 - MITSUBISHI ELECTRIC CORP

Citation (search report)
• [A] EP 2261574 A1 20101215 - HITACHI APPLIANCES INC [JP]
• [A] EP 2484987 A1 20120808 - PANASONIC CORP [JP]
• [A] JP 2012032117 A 20120216 - PANASONIC ELECTRIC WORKS CO LTD
• [A] JP 2007187382 A 20070726 - DENSO CORP
• [A] US 2013284818 A1 20131031 - HAYASHIDA GAKU [JP], et al

Cited by
EP3477218A4; AU2016412742B2; CN117094527A

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 2913596 A1 20150902; EP 2913596 B1 20180516; JP 2015161458 A 20150907; JP 6293515 B2 20180314

DOCDB simple family (application)
EP 15156717 A 20150226; JP 2014037551 A 20140227