

Title (en)
HEAT PUMP HOT WATER SUPPLY DEVICE

Title (de)
HEISSWASSERZUFUHRVORRICHTUNG FÜR WÄRMEPUMPE

Title (fr)
DISPOSITIF D ALIMENTATION EN EAU CHAUDE D UNE POMPE A CHALEUR

Publication
EP 1972862 A4 20130911 (EN)

Application
EP 06832949 A 20061120

Priority
• JP 2006323099 W 20061120
• JP 2005378539 A 20051228

Abstract (en)
[origin: EP1972862A1] The heat pump water heater comprises a CO₂ cycle 1 in which CO₂ refrigerant circulates, a R410A cycle 2 in which R410A refrigerant circulates, and a water heat exchanger 32 for conducting heat exchange between the CO₂ refrigerant and/or the R410A refrigerant and water, wherein the R410A cycle 2 includes a circulation path 20 passing through the water heat exchanger 32, a circulation path 40 passing through a indoor air heat exchanger 4 that conducts heat exchange between the R410A refrigerant and indoor air, and a four-way valve 24 for switching the circulating direction of the R410A refrigerant in the present R410A cycle 2 to provide heat pump water heater, capable of using a heat pump cycle for supplying hot water in cooling and heating (air-conditioning). And also, to obtain a sufficient temperature and an amount of the hot water supply when the heat pump water heater simultaneously conducts heating and supplying hot water.

IPC 8 full level
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Citation (search report)
• [XP] AU 2005258416 A1 20060112 - DAIKIN IND LTD
• [XDAY] JP 2005180742 A 20050707 - HITACHI LTD, et al
• [YDA] JP 2005083585 A 20050331 - MITSUBISHI ELECTRIC CORP
• See references of WO 2007077687A1

Cited by
EP2532981A3

Designated contracting state (EPC)
DE ES FR IT SE

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