

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 A1 20080924 (EN)**

Application  
**EP 06832949 A 20061120**

Priority  
• JP 2006323099 W 20061120  
• JP 2005378539 A 20051228

Abstract (en)  
The heat pump water heater comprises a CO<sub>2</sub> cycle 1 in which CO<sub>2</sub> refrigerant circulates, a R410A cycle 2 in which R410A refrigerant circulates, and a water heat exchanger 32 for conducting heat exchange between the CO<sub>2</sub> 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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**F24D 17/02** (2013.01); **F25B 9/008** (2013.01); **F25B 13/00** (2013.01); **F25B 2309/061** (2013.01); **F25B 2313/003** (2013.01); **F25B 2313/0213** (2013.01); **F25B 2313/02741** (2013.01); **F25B 2400/06** (2013.01)

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DE ES FR IT SE

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