

Title (en)
CONTROL METHOD AND DEVICE FOR HEAT PUMP WATER HEATER

Title (de)
STEUERUNGSVERFAHREN UND -VORRICHTUNG FÜR WÄRMEPUMPENWASSERERHITZER

Title (fr)
PROCÉDÉ ET DISPOSITIF DE COMMANDE POUR CHAUFFE-EAU À POMPE À CHALEUR

Publication
EP 4206556 A4 20240228 (EN)

Application
EP 21859994 A 20210722

Priority
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• CN 2021107990 W 20210722

Abstract (en)
[origin: EP4206556A1] A control method for a heat pump water heater, a controller and a water heater. The water heater includes a first condenser (21) and a second condenser (22) disposed one above the other along a water tank (1), a refrigerant outlet of the first condenser (21) is connected to a refrigerant inlet of the second condenser (22) through a first refrigerant branch pipe (31), the first refrigerant branch pipe (31) is provided with a regulating valve (311), the refrigerant inlet of the second condenser (22) is further connected to a refrigerant gross pipe (30) through a second refrigerant branch pipe (32), and the second refrigerant branch pipe (32) is provided with a switch valve (321). The controller is communicatively connected to the regulating valve (311) and the switch valve (321) respectively.

IPC 8 full level
F24H 4/02 (2022.01); **F24H 4/04** (2006.01); **F24H 9/20** (2022.01); **F24H 15/225** (2022.01); **F24H 15/39** (2022.01); **F25B 6/02** (2006.01); **F25B 6/04** (2006.01); **F25B 30/02** (2006.01)

CPC (source: CN EP)
F24H 4/02 (2013.01 - CN); **F24H 4/04** (2013.01 - EP); **F24H 9/0005** (2013.01 - CN); **F24H 9/2007** (2013.01 - CN); **F24H 9/2021** (2013.01 - EP); **F24H 15/225** (2022.01 - EP); **F24H 15/39** (2022.01 - EP); **F25B 13/00** (2013.01 - EP); **F25B 41/20** (2021.01 - EP); **F25B 49/02** (2013.01 - EP); **F24D 2200/123** (2013.01 - EP); **F24D 2220/08** (2013.01 - EP); **F25B 2313/003** (2013.01 - EP); **F25B 2313/02323** (2013.01 - EP); **F25B 2313/0234** (2013.01 - EP); **F25B 2600/2501** (2013.01 - EP); **F25B 2700/21161** (2013.01 - EP)

Citation (search report)
• [X] CN 110906589 A 20200324 - QINGDAO HAIER NEW ENERGY ELECTRIC APPLIANCE CO LTD, et al
• [Y] CN 110986436 A 20200410 - QINGDAO HAIER NEW ENERGY ELECTRIC APPLIANCE CO LTD, et al
• [Y] CN 105588331 A 20160518 - HISENSE (SHANDONG) AIR-CONDITIONING CO LTD
• See also references of WO 2022042154A1

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