

Title (en)  
WATER HEATER

Title (de)  
WARMWASSERBEREITER

Title (fr)  
CHAUFFE-EAU

Publication  
**EP 3904782 A4 20220302 (EN)**

Application  
**EP 20809390 A 20200228**

Priority  
• CN 201920737073 U 20190522  
• CN 2020077159 W 20200228

Abstract (en)  
[origin: EP3904782A1] A water heater. The water heater comprises: an outer machine (1), a refrigerant being provided in the outer machine (1); and heat storage devices (2), each heat storage device (2) comprising an air inlet pipe (20) and a liquid outlet pipe (21) communicated with the outer machine (1). The outer machine (1) can make the refrigerant flow from the air inlet pipe (20) to the heat storage devices (2) and flow out from the liquid outlet pipe (21), so that the heat storage device (2) can store heat. The number of the heat storage devices (2) is at least two, the at least two heat storage devices (2) are connected in parallel, the liquid outlet pipe (21) of any heat storage device (2) is provided with a valve (22), and the valve (22) is used for adjusting the flow rate of the refrigerant passing through the heat storage device (2).

IPC 8 full level  
**F24H 4/02** (2022.01); **F24D 3/18** (2006.01); **F24D 17/02** (2006.01); **F24D 19/10** (2006.01); **F24H 1/00** (2022.01); **F24H 4/04** (2006.01); **F24H 9/20** (2022.01); **F25B 41/00** (2021.01); **F28D 20/02** (2006.01)

CPC (source: EP US)  
**F24D 17/02** (2013.01 - EP); **F24D 19/1054** (2013.01 - EP US); **F24H 4/04** (2013.01 - EP); **F24H 15/20** (2022.01 - EP US); **F24H 15/385** (2022.01 - EP US); **F25B 49/02** (2013.01 - EP); **F28D 20/021** (2013.01 - EP); **F24D 3/18** (2013.01 - EP); **F24D 19/1039** (2013.01 - EP); **F24D 2200/123** (2013.01 - EP); **F24H 15/176** (2022.01 - EP US); **F25B 2339/047** (2013.01 - EP); **F25B 2400/24** (2013.01 - EP); **F25B 2600/2513** (2013.01 - EP); **F25B 2700/2111** (2013.01 - EP); **F28D 2020/0082** (2013.01 - EP); **F28F 2270/00** (2013.01 - EP)

Designated contracting state (EPC)  
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Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
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**EP 20809390 A 20200228**; AU 2020280443 A 20200228; CN 201920737073 U 20190522; CN 2020077159 W 20200228