

Title (en)
HOT-WATER SUPPLY DEVICE

Title (de)
HEISSWASSERVERSORGUNGSVORRICHTUNG

Title (fr)
DISPOSITIF D'ALIMENTATION EN EAU CHAUDE

Publication
EP 2980504 B1 20190508 (EN)

Application
EP 14776050 A 20140307

Priority
• JP 2013065855 A 20130327
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• JP 2014001270 W 20140307

Abstract (en)
[origin: EP2980504A1] A water heater includes: a heat medium circuit 4 in which a lower portion and an upper portion of a tank 11 storing heat medium therein are annularly connected to each other through a heat medium pipe; a heating device 30; a pump (14, 31); and a hot water supply circuit 16. The water heater includes a hot water supply heat exchanger 13 which exchanges heat between the heat medium flowing through the heat medium circuit 4 and the water flowing through the hot water supply circuit 16. Since the heat medium circuit 4 is a closed circuit, it is possible to use water including much hard component. It is possible to heat the heat medium and to heat water supplied to the hot water supply terminal by the single heat medium circuit 4. Therefore, it is possible to reduce the water heater in size and cost.

IPC 8 full level
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CPC (source: EP US)
F24D 17/02 (2013.01 - EP); **F24H 4/04** (2013.01 - EP US); **F24D 2240/26** (2013.01 - EP); **F24H 15/156** (2022.01 - EP US);
F24H 15/38 (2022.01 - EP US)

Cited by
DE102019119243A1; DE102019119229A1

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EP 2980504 A1 20160203; **EP 2980504 A4 20160713**; **EP 2980504 B1 20190508**; CN 105102902 A 20151125; CN 105102902 B 20180622;
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