

Title (en)  
HOT WATER SUPPLY DEVICE

Title (de)  
WARMWASSERVERSORGUNGSVORRICHTUNG

Title (fr)  
SYSTÈME D'ALIMENTATION EN EAU CHAUDE

Publication  
**EP 3667195 A4 20200722 (EN)**

Application  
**EP 17921093 A 20170810**

Priority  
JP 2017029133 W 20170810

Abstract (en)  
[origin: EP3667195A1] A hot-water supply apparatus includes: a hot-water tank configured to store water; a heat exchanger configured to allow the water stored in the hot-water tank and water stored in a bathtub to exchange heat with each other; a bathtub circulation passage configured to allow the water stored in the bathtub to flow out of the bathtub and return to the bathtub via the heat exchanger; a bathtub circulation pump provided to the bathtub circulation passage and configured to circulate the water stored in the bathtub through the bathtub circulation passage; and a controller configured to perform a heat recovery operation in which heat of the water stored in the bathtub is recovered into the water stored in the hot-water tank, and a washing operation in which an inside of the bathtub is washed. In both the heat recovery operation and the washing operation, the bathtub circulation pump is activated to circulate the water stored in the bathtub through the bathtub circulation passage.

IPC 8 full level  
**F24H 1/00** (2006.01); **A47K 3/00** (2006.01); **A47K 3/02** (2006.01); **F24D 17/00** (2006.01); **F24D 17/02** (2006.01); **F24D 19/10** (2006.01); **F24H 1/18** (2006.01)

CPC (source: EP US)  
**A47K 3/001** (2013.01 - EP); **E03C 1/044** (2013.01 - EP); **F24D 17/001** (2013.01 - EP); **F24D 17/02** (2013.01 - EP); **F24D 19/1054** (2013.01 - EP US); **F24H 1/18** (2013.01 - EP); **E03C 2001/005** (2013.01 - EP); **F24D 2200/12** (2013.01 - EP)

Citation (search report)

- [XYI] JP 2017053526 A 20170316 - DENSO CORP
- [YD] JP 2016048130 A 20160407 - MITSUBISHI ELECTRIC CORP
- [Y] JP 2014001911 A 20140109 - CHOFU SEISAKUSHO CO LTD
- [Y] JP 2011002147 A 20110106 - MITSUBISHI ELECTRIC CORP
- See references of WO 2019030900A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3667195 A1 20200617**; **EP 3667195 A4 20200722**; **EP 3667195 B1 20220921**; JP 6921203 B2 20210818; JP WO2019030900 A1 20200528; WO 2019030900 A1 20190214

DOCDB simple family (application)  
**EP 17921093 A 20170810**; JP 2017029133 W 20170810; JP 2019535542 A 20170810