

Title (en)
WATER HEATER

Title (de)
WARMWASSERBEREITER

Title (fr)
CHAUFFE-EAU

Publication
EP 3546846 A4 20191120 (EN)

Application
EP 16922258 A 20161128

Priority
JP 2016085099 W 20161128

Abstract (en)
[origin: EP3546846A1] A controller includes an operation control unit that controls operations of a compressor, an expansion device, and a feeding device. When the operation control unit starts heating operation for storing heated water in a tank, the operation control unit starts operating both the compressor and the feeding device together. The operation control unit operates the compressor at a first compressor rotation speed until a preset first time period elapses from when the heating operation is started. After a lapse of the first time period, the operation control unit operates the compressor at a second compressor rotation speed higher than the first compressor rotation speed.

IPC 8 full level
F24H 4/02 (2006.01); **F24D 17/02** (2006.01); **F24D 19/10** (2006.01); **F24H 4/04** (2006.01); **F24H 9/20** (2006.01)

CPC (source: EP US)
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Citation (search report)

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- [A] JP 2011075257 A 20110414 - HITACHI APPLIANCES INC
- [A] JP 2010261665 A 20101118 - MITSUBISHI ELECTRIC CORP
- [A] JP 2013224767 A 20131031 - RINNAI KK, et al
- [A] JP 2016166715 A 20160915 - RINNAI KK
- See references of WO 2018096664A1

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)
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EP 3546846 A1 20191002; **EP 3546846 A4 20191120**; **EP 3546846 B1 20210324**; JP 6715948 B2 20200701; JP WO2018096664 A1 20190627; WO 2018096664 A1 20180531

DOCDB simple family (application)
EP 16922258 A 20161128; JP 2016085099 W 20161128; JP 2018552362 A 20161128