

Title (en)

Hot water supply system and control method thereof

Title (de)

Warmwasserversorgungssystem und Steuerungsverfahren dafür

Title (fr)

Système d'alimentation en eau chaude et son procédé de commande

Publication

EP 2853839 B1 20180131 (EN)

Application

EP 14186060 A 20140924

Priority

JP 2013201574 A 20130927

Abstract (en)

[origin: EP2853839A1] A hot water supply system 1 configured to sequentially store high-temperature water produced in a heat source machine 2 while forming temperature stratification, and maintain a set temperature, the system including: a bypass circuit 26 that is provided between a high-temperature water pipe 15 so as to bypass warm water spouted from the heat source machine 2 to the low-temperature water system by a switch valve 25 when the warm water has a low temperature at initiation of a heat retaining operation for maintaining the warm water stored at a given temperature; and a valve control section 27 that switches to the hot water storage tank 11 the warm water having a low temperature bypassed to the bypass circuit 26 by using an R value, which is a mixture characteristic value of the temperature-stratified hot water storage tank based on the temperature of the warm water, as an index.

IPC 8 full level

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

CPC (source: EP US)

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Cited by

CN113375340A; CN110822711A; CN111006425A; CN105066444A; CN106568119A; CN107131651A; CN111868455A; EP3757477A4

Designated contracting state (EPC)

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EP 2853839 A1 20150401; **EP 2853839 B1 20180131**; ES 2660750 T3 20180326; JP 2015068539 A 20150413; JP 6239333 B2 20171129

DOCDB simple family (application)

EP 14186060 A 20140924; ES 14186060 T 20140924; JP 2013201574 A 20130927