

Title (en)
Heat pump type hot water supply system

Title (de)
Heizwasserversorgungsanlage mit Wärmepumpe

Title (fr)
Installation à eau chaude avec pompe à chaleur

Publication
EP 2241829 A2 20101020 (EN)

Application
EP 10008096 A 20020927

Priority
• EP 02021700 A 20020927
• JP 2001302126 A 20010928

Abstract (en)
A heat pump type hot water supply system includes a hot water storage tank (3), and a circulation line (12) connecting a water outlet (10) at the lower part of the storage tank (3) and a hot water inlet (11) at the upper part thereof. The circulation line (12) is provided partway therealong with a heat exchange line (14) to be heated by a heat pump heat source. The system is configured to return hot water heated up in the heat exchange line (14) to the hot water storage tank (3) through the hot water inlet (11) When the heated water temperature of the heat exchange line (14) is equal to or below a set point, the return of the water to the hot water storage tank (3) through the hot water inlet (11) is hindered, and when the heated temperature of the heat exchange line (14) is above the set point, the outgoing water from the heat exchange line (14) is returned to the hot water storage tank (3) through the hot water inlet (11).

IPC 8 full level
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CPC (source: EP US)
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F24H 15/136 (2022.01 - EP US); **F24H 15/164** (2022.01 - EP US); **F24H 15/227** (2022.01 - EP US); **F24H 15/242** (2022.01 - EP US);
F24H 15/385 (2022.01 - EP US); **F24H 15/414** (2022.01 - EP US); **F24D 2220/042** (2013.01 - EP); **F24D 2240/26** (2013.01 - EP)

Cited by
CN104019545A; GB2534610A; CN103776167A; CN103868243A; CN110180239A; KR20220127013A

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EP 1298395 A2 20030402; **EP 1298395 A3 20040114**; **EP 1298395 B1 20110216**; AT E498803 T1 20110315; DE 60239177 D1 20110331;
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