

Title (en)

CONTROL SYSTEM FOR CONTROLLING THE HEATING OF DOMESTIC WATER FOR A STORAGE TANK

Publication

EP 0038318 B2 19900117 (DE)

Application

EP 81890059 A 19810406

Priority

- AT 195180 A 19800410
- AT 353780 A 19800707

Abstract (en)

[origin: EP0038318A1] 1. Apparatus for an automatic temperature control of the water which is contained in a water storage container (1) and is heated by means of a heat exchanger (9), which is disposed outside the storage container and provided with primary and secondary circuits and is supplied on its primary side with heat energy from a heat source, wherein the water to be heated flows through the secondary circuit and is withdrawn from the storage vessel near its bottom and by a thermostat-controlled charging pump (10) is pumped through the heat exchanger and returned in a heated state near the cover, characterized in that a first thermostat (T1) is disposed in the storage container (1), preferably adjacent to the middle of the storage container, a second thermostat (T2) is connected in series with the first thermostat (T1) and disposed in the region between the cold water zone at the bottom of the storage container (1) and the entrance of the secondary circuit to the heat exchanger (9), the first thermostat (T1) energizing the charging pump (10) for the charging operation, and the second thermostat (T2) deenergizing the charging pump for terminating the charging operation, the first thermostat (T1) being closed at a predetermined first temperature of the water for consumption and the second thermostat (T2) being opened at a predetermined upper temperature of the water for consumption so that the water for consumption which is to be heated is circulated only once, and a final control element adjusting or automatically controlling the flow rate is provided in the secondary circuit.

IPC 1-7

F24D 19/10; **F24D 17/00**

IPC 8 full level

F24D 17/02 (2006.01); **F24D 19/10** (2006.01)

CPC (source: EP US)

F24D 17/02 (2013.01 - EP); **F24D 19/1066** (2013.01 - EP US)

Cited by

FR2521697A1; CN105890168A; DE3311127A1; FR2745071A1; DE19706506B4; DE4342742A1; CN105569119A; DE19904937A1; DE3608868A1; EP0098788A3; EP0092864A3; WO2018071947A1; WO9002300A1

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