

Title (en)

Method for water heating using a water heater and a multi-layered storage tank

Title (de)

Verfahren zur Warmwasserbereitung mit einem Wärmeerzeuger und einem Schichtenspeicher

Title (fr)

Procédé pour préparer de l'eau chaude utilisant un chauffe-eau et un accumulateur stratifié

Publication

EP 1795818 A1 20070613 (DE)

Application

EP 06024756 A 20061130

Priority

DE 102005058570 A 20051208

Abstract (en)

A method for controlling a water heating system connected to a hot water tank with a layered storage of hot and cold water has a control system (7) linked to the heating circuit which draws cold water from the bottom of the tank and returns heated water into the top of the tank. The control circuit monitors the heating effect and the hot water storage to compute the optimum output from the heater (1) as well as the optimum pump loading (8) to best match the heating with the demands for heated water and without undue turbulence.

IPC 8 full level

F24D 19/10 (2006.01)

CPC (source: EP US)

F24D 19/1051 (2013.01 - EP US); **F24H 15/144** (2022.01 - EP US); **F24H 15/215** (2022.01 - EP US); **F24H 15/219** (2022.01 - EP US); **F24H 15/223** (2022.01 - EP US); **F24H 15/325** (2022.01 - EP US); **F24H 15/335** (2022.01 - EP US)

Citation (search report)

- [A] EP 1170554 A2 20020109 - SOLVIS SOLARSYSTEME GMBH [DE]
- [DA] DE 3835096 A1 19900419 - SANDLER MARTIN DIPL ING FH [DE]
- [A] DE 19515467 A1 19961031 - GROSS MAREK DIPL ING [DE]

Cited by

EP1906104A1; CN102865663A; EP2017537A3; FR2928442A1; CN101965485A; EP3062027A1; US9134037B2; WO2009112385A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1795818 A1 20070613; EP 1795818 B1 20160224; DE 102005058570 B3 20070524

DOCDB simple family (application)

EP 06024756 A 20061130; DE 102005058570 A 20051208