

Title (en)

HEATING AND HOT WATER SUPPLY UNIT AND METHOD FOR OPERATING THE SAME

Title (de)

HEIZ- UND WARMWASSERBEREITUNGSANLAGE UND VERFAHREN ZUM BETRIEB EINER SOLCHEN

Title (fr)

INSTALLATION DE CHAUFFAGE ET DE TRAITEMENT D'EAU CHAUDE

Publication

EP 1740890 A1 20070110 (DE)

Application

EP 05733255 A 20050427

Priority

- AT 2005000143 W 20050427
- AT 7342004 A 20040428

Abstract (en)

[origin: AT412818B] The heating and/or hot water heating system has a heat pump (24) with an external cooling circuit with a heat exchanger washed through by rain water from a cistern (11). The heat exchanger is constructed from a row of segments which each have a feed and return collector which are interconnected by the individual tube-form or plate-form, parallel extending heat exchanger elements, and which are washed through by cistern water and by cooling medium of the heat pump. The feed and return collectors of adjacent segments have opposite flow directions and are controlled by an electronic control unit (35) receiving signals from temperature sensors (32,33). An independent claim is included for a method for the operating of a heating and/or hot water heating plant in which a cistern is filled with preferably rain water and then passed through a heat exchanger.

IPC 8 full level

F24D 11/02 (2006.01); **F24D 19/00** (2006.01); **F24J 2/04** (2006.01); **F24J 2/46** (2006.01); **F24J 3/08** (2006.01); **F24S 10/60** (2018.01); **F28D 7/02** (2006.01); **F28D 20/00** (2006.01)

CPC (source: EP US)

F24D 11/0221 (2013.01 - EP US); **F24T 10/10** (2018.04 - EP US); **F28D 7/022** (2013.01 - EP US); **F28D 20/0034** (2013.01 - EP US); **Y02B 10/20** (2013.01 - EP US); **Y02B 10/40** (2013.01 - EP US); **Y02B 10/70** (2013.01 - EP US); **Y02E 10/10** (2013.01 - EP US); **Y02E 60/14** (2013.01 - EP US); **Y02E 70/30** (2013.01 - EP US)

Citation (search report)

See references of WO 2005106349A1

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 MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

HR

DOCDB simple family (publication)

AT 412818 B 20050725; **AT A7342004 A 20041215**; AT 505554 B1 20090215; EP 1740890 A1 20070110; RU 2310137 C1 20071110; US 2006159154 A1 20060720; US 7575047 B2 20090818; WO 2005106349 A1 20051110

DOCDB simple family (application)

AT 7342004 A 20040428; AT 2005000143 W 20050427; AT 91432005 A 20050427; EP 05733255 A 20050427; RU 2006104615 A 20050427; US 35711406 A 20060221