

Title (en)

METHOD OF PROTECTION OF A WATER HEATING INSTALLATION AGAINST FREEZING, WATER HEATING INSTALLATION FOR ITS PERFORMANCE, AS WELL AS A CIRCUIT FOR SUCH A WATER HEATING INSTALLATION

Publication

**EP 0403422 A3 19910417 (DE)**

Application

**EP 90710014 A 19900613**

Priority

AT 144089 A 19890613

Abstract (en)

[origin: EP0403422A2] For the protection of a water-heating installation against freezing of the water heater (1) which is operated by a burner (2), independent of the air in the room, the drive of the burner fan (5) is shut down after the expiry of a predetermined period beginning with the error display of an air monitor (14), for a predetermined minimum period. A water-heating installation suitable for the performance of this method contains, for the purposes of conforming to the predetermined periods, a circuit (23) which is connected to a cyclic oscillator (26) and is linked to the general control (12) of this installation via a control line (22). <IMAGE>

IPC 1-7

**F24H 9/20**

IPC 8 full level

**F24D 19/00** (2006.01)

CPC (source: EP)

**F24D 19/0095** (2013.01)

Citation (search report)

- [A] PATENT ABSTRACTS OF JAPAN Band 9, Nr. 149 (M-390)(1872), 25. Juni 1985; & JP - A - 60026241 (MATSUSHITA DENKI SANGYO) 09.02.1985
- [A] PATENT ABSTRACTS OF JAPAN Band 9, Nr. 22 (M-354)(1745), 30. Januar 1985; & JP - A - 59167646 (SANYO DENKI) 21.09.1984

Cited by

US6368556B1

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DOCDB simple family (publication)

**EP 0403422 A2 19901219; EP 0403422 A3 19910417; EP 0403422 B1 19940330;** AT 397572 B 19940525; AT A144089 A 19930915; AT E103698 T1 19940415; DE 4018985 A1 19901220; DE 59005155 D1 19940505

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