

Title (en)

Warm water heating installation with hydraulic protection circuit and method for operating the same.

Title (de)

Warmwasserheizanlage mit einer hydraulischen Schutzschaltung und Verfahren zum Betreiben derselben

Title (fr)

Installation de chauffage d'eau chaude avec circuit de protection hydraulique et méthode pour l'exploiter

Publication

**EP 1619453 A1 20060125 (DE)**

Application

**EP 05104842 A 20050603**

Priority

DE 102004035298 A 20040721

Abstract (en)

The heating unit has a water heater (10) with an internal heating circuit (15), a circulation pump (20), a switching valve (30), a secondary heat exchanger (25) and a control and regulating unit (29). A pressure receiver (28) is fitted in the internal heating circuit. It sends pressure signals to the control and regulating unit. The control unit can switch on the branch line (24) with the secondary heat exchanger. This separates the internal heating circuit from the external heating circuit (11).

IPC 8 full level

**F24H 9/20** (2006.01); **F24H 1/52** (2006.01)

CPC (source: EP US)

**F24H 1/52** (2013.01 - EP); **F24H 9/2035** (2013.01 - EP US); **F24H 15/12** (2022.01 - EP US); **F24H 15/242** (2022.01 - EP US); **F24H 15/32** (2022.01 - EP US); **F24H 15/36** (2022.01 - EP US)

Citation (search report)

- [A] DE 4433387 A1 19950323 - VAILLANT JOH GMBH & CO [DE]
- [A] DE 3740137 A1 19890608 - SCHERER NORBERT [DE]
- [A] DE 19923296 A1 20001207 - BAELEZ GMBH HELMUT [DE]

Cited by

CN112146265A; EP2957837A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

**EP 1619453 A1 20060125; EP 1619453 B1 20110810**; DE 102004035298 A1 20060316; DE 102004035298 B4 20060817

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