

Title (en)  
Water heater

Title (de)  
Warmwasser-Heizgerät

Title (fr)  
Chaufe-eau

Publication  
**EP 0990861 A3 20020807 (DE)**

Application  
**EP 99118879 A 19990924**

Priority  
DE 19844856 A 19980930

Abstract (en)  
[origin: EP0990861A2] The heater has a heat exchanger (7) heated by a burner (4), which is connected to a cold water intake (12) and a hot water outlet (13). A regulator controlling the fuel supply to the burner is connected to a flow sensor (1) in the cold water intake, and a temperature sensor (11) in the hot water outlet. A bypass channel (17) is positioned in front of the flow sensor in flow direction, between intake and outlet. Flow limiters (15,14) are positioned in the bypass channel and a heater circuit (5,10) containing the heat exchanger.

IPC 1-7  
**F24H 9/20**

IPC 8 full level  
**F24H 9/20** (2006.01)

CPC (source: EP US)  
**F24H 9/2035** (2013.01 - EP US); **F24H 15/219** (2022.01 - EP US); **F24H 15/238** (2022.01 - EP US); **F24H 15/36** (2022.01 - EP US)

Citation (search report)

- [Y] US 4501261 A 19850226 - TSUTSUI OSAMU [JP], et al
- [YD] DE 3805441 A1 19880915 - STIEBEL ELTRON GMBH & CO KG [DE]
- [AD] DE 4308770 A1 19930930 - RINNAI KK [JP]
- [Y] PATENT ABSTRACTS OF JAPAN vol. 015, no. 441 (M - 1177) 11 November 1991 (1991-11-11)

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EP1310736A3; EP1063481A3; ITMI20110245A1; EP1063475A3; US2011174463A1; WO0179733A1; WO2009136211A3; TWI557383B

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
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