

Title (en)  
Flangeless plastic boiler

Title (de)  
Flanschloser Kunststoff-Boiler

Title (fr)  
Chaudière en matière plastique sans bride

Publication  
**EP 1731850 B2 20160817 (DE)**

Application  
**EP 06011532 A 20060602**

Priority  
DE 10526919 A 20050610

Abstract (en)  
[origin: EP1731850A2] The boiler has a housing from plastic and a heater (40) extended in inside of the housing by a mounting opening (46) and fixed in the mounting opening by a supporting ring (56). The heater has an unheated end (42) in an area of the mounting opening and inside the housing, where the mounting opening is fixed in the housing in a manner that its inner diameter corresponds to outside diameter of the heater.

IPC 8 full level  
**F24H 9/18** (2006.01); **F24H 1/20** (2006.01)

CPC (source: EP)  
**F24H 1/202** (2013.01); **F24H 9/1863** (2013.01)

Citation (opposition)  
Opponent :

- EP 1211466 A2 20020605 - MERLONI TERMOSANITARI SPA [IT]
- FR 2088630 A5 19720107 - PYROR PROCEDES
- US 2748251 A 19560529 - DRUGMAND LESTER D
- CA 1019026 A 19771011 - RHEEM INTERNATIONAL
- DE 3333698 A1 19850404 - STIEBEL ELTRON GMBH & CO KG [DE]
- WO 2004083738 A1 20040930 - BSH BOSCH SIEMENS HAUSGERAETE [DE], et al
- WO 03002919 A1 20030109 - BSH BOSCH SIEMENS HAUSGERAETE [DE]
- DE 3804326 A1 19890824 - EGO ELEKTRO BLANC & FISCHER [DE]
- US 3134888 A 19640526 - AMMERMAN GEORGE E
- Wikipediaeintrag "Rohrheizkörper"

Cited by  
FR3103885A1; DE102017124062A1; EP3936007A1; WO2021105611A1

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

DOCDB simple family (publication)  
**EP 1731850 A2 20061213; EP 1731850 A3 20090513; EP 1731850 B1 20130213; EP 1731850 B2 20160817**

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