

Title (en)  
Heater

Title (de)  
Heizer

Title (fr)  
Dispositif de chauffage

Publication  
**EP 2103882 B1 20130522 (EN)**

Application  
**EP 08005307 A 20080320**

Priority  
EP 08005307 A 20080320

Abstract (en)  
[origin: EP2103882A1] A heater for a room heating system is provided. The heater comprises a heating element and a housing for the heating element. The heater includes an inlet for a thermal distribution liquid into the housing and an outlet for the liquid from the housing. The housing is arranged to contain the liquid as it follows a flow path from the inlet to the outlet over the heating element. The housing is adapted to be mounted in a predetermined orientation to provide a top side and a bottom side of the housing. A first thermal cut off is positioned substantially at or below the top of the heating element when the housing is in the predetermined orientation. The heater is a backup heater in a room heating system mostly powered by a heat pump.

IPC 8 full level  
**F24D 15/04** (2006.01); **F24H 9/20** (2006.01)

CPC (source: EP US)  
**F24D 15/04** (2013.01 - EP); **F24H 9/2028** (2013.01 - EP US); **F24H 15/132** (2022.01 - EP US); **F24H 15/25** (2022.01 - EP US);  
**F24H 15/37** (2022.01 - EP US)

Citation (examination)  
• DE 19535891 A1 19970403 - MERK KARL [DE]  
• EP 1895241 A2 20080305 - CTC FERROFIL AS [NO]

Cited by  
CN109945287A

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**EP 2103882 A1 20090923; EP 2103882 B1 20130522**

DOCDB simple family (application)  
**EP 08005307 A 20080320**