

Title (en)  
ELECTRIC HEATER

Title (de)  
ELEKTRISCHE HEIZVORRICHTUNG

Title (fr)  
CHAUFFAGE ÉLECTRIQUE

Publication  
**EP 3161389 B1 20180711 (DE)**

Application  
**EP 15766785 A 20150916**

Priority  
• DE 102014219142 A 20140923  
• EP 2015071179 W 20150916

Abstract (en)  
[origin: WO2016046038A1] The invention relates to an electric heating device (1) for emitting a heated air flow, in particular for heating a washroom in a railway vehicle, comprising: an air channel (2), a fan (3) for generating the air flow; a heating element (4) for heating the air flow; and a first overtemperature switch (8), wherein the first overtemperature switch (8) is designed to reversibly switch off the heating element (4) when a first overtemperature is exceeded; as well as a second overtemperature switch (10) that is designed to irreversibly switch off the heating element (4) when a second overtemperature is exceeded. According to the invention, a depression is formed on the air channel (2), the second overtemperature switch (10) is arranged in the depression, and the second overtemperature switch (10) has a disconnect switch that can be thermally triggered for switching off the heating element (4), wherein the thermally triggerable disconnect switch can be triggered by a glass bead that breaks when the second overtemperature is exceeded.

IPC 8 full level  
**F24H 9/18** (2006.01); **A47K 10/48** (2006.01); **B60H 1/22** (2006.01); **F24H 3/04** (2006.01); **F24H 9/02** (2006.01); **F24H 9/20** (2006.01); **H01H 37/00** (2006.01); **H01H 37/36** (2006.01); **H01H 71/00** (2006.01); **H02H 5/04** (2006.01)

CPC (source: EP US)  
**A47K 10/48** (2013.01 - EP US); **B61D 27/0045** (2013.01 - EP US); **F24H 3/0405** (2013.01 - EP US); **F24H 3/0411** (2013.01 - EP US); **F24H 9/02** (2013.01 - EP US); **F24H 9/1863** (2013.01 - EP US); **H01H 37/006** (2013.01 - EP US); **H01H 37/04** (2013.01 - US); **H01H 37/36** (2013.01 - US); **F24D 2220/042** (2013.01 - EP US); **F24H 9/0063** (2013.01 - EP US); **F24H 2250/02** (2013.01 - EP US)

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

DOCDB simple family (publication)  
**DE 102014219142 B3 20160114**; CN 208559353 U 20190301; DK 3161389 T3 20181001; EP 3161389 A1 20170503; EP 3161389 B1 20180711; ES 2690727 T3 20181122; PL 3161389 T3 20181231; PT 3161389 T 20181102; RU 176364 U1 20180117; US 2017307257 A1 20171026; WO 2016046038 A1 20160331

DOCDB simple family (application)  
**DE 102014219142 A 20140923**; CN 201590001001 U 20150916; DK 15766785 T 20150916; EP 15766785 A 20150916; EP 2015071179 W 20150916; ES 15766785 T 20150916; PL 15766785 T 20150916; PT 15766785 T 20150916; RU 2017113681 U 20150916; US 201515513661 A 20150916