

Title (en)

Bare wire continuous-flow heaters with all-phase bare wire heating device

Title (de)

Blankdrahtdurchlauferhitzer mit allpolig schaltbarer Blankdrahtheizeinrichtung

Title (fr)

Chauffe-eau instantané à fil nu doté d'un dispositif de chauffage à fil nu commutable au niveau de tous les pôles

Publication

**EP 2489949 B1 20151223 (DE)**

Application

**EP 11155222 A 20110221**

Priority

EP 11155222 A 20110221

Abstract (en)

[origin: EP2489949A1] The heater has a load current circuit (10) comprising a bare wire heating device (11). A control device (15) controls switching conditions of switching devices that comprise first and second switching units (14a, 14b) and a third switching unit, where the first and third units are connected to respective galvanic separating units, such that the switching units are directly connected with the control device. The third unit is designed in a self-controlled manner such that the third unit is connected to an electrical conductor (13b) free from direct connection to the separating units.

IPC 8 full level

**F24H 1/10** (2006.01); **F24H 9/20** (2006.01)

CPC (source: EP US)

**F24H 1/103** (2013.01 - EP); **F24H 9/2028** (2013.01 - EP US); **F24H 15/407** (2022.01 - EP US); **H05B 1/0283** (2013.01 - EP)

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)

**EP 2489949 A1 20120822; EP 2489949 B1 20151223**

DOCDB simple family (application)

**EP 11155222 A 20110221**