

Title (en)
Element which produces heat

Title (de)
Wärme erzeugendes Element

Title (fr)
Élément générateur de chaleur

Publication
EP 2608631 B1 20160914 (DE)

Application
EP 11010086 A 20111222

Priority
EP 11010086 A 20111222

Abstract (en)
[origin: EP2608631A1] The device has a layer structure (46) arranged in a frame (44) and comprising layers of waving ribs and heat generating elements. One of the heat generating elements include positive temperature co-efficient (PTC) elements, which are arranged between parallel contact plates. Waving rib elements are arranged one behind the other in a passage direction of medium e.g. water. The ribs are arranged transverse to the passage direction of the medium. A cooling body (32) is sealingly inserted into a connector housing, and a sealing element bridges a gap between the body and contours of the housing. An independent claim is also included for a frame.

IPC 8 full level
H05B 3/40 (2006.01)

CPC (source: EP US)
H05B 3/02 (2013.01 - US); **H05B 3/50** (2013.01 - EP); **H05B 2203/016** (2013.01 - EP US); **H05B 2203/017** (2013.01 - EP US);
H05B 2203/023 (2013.01 - EP US)

Cited by
CN104723833A; EP3310126A1; WO2021155997A1

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 2608631 A1 20130626; EP 2608631 B1 20160914; CN 103179702 A 20130626; CN 103179702 B 20160127; US 2013161306 A1 20130627;
US 9326324 B2 20160426

DOCDB simple family (application)
EP 11010086 A 20111222; CN 201210568781 A 20121224; US 201213723528 A 20121221