

Title (en)
TEMPERATURE-DEPENDENT SWITCH WITH A SPACER RING

Title (de)
TEMPERATURABHÄNGIGER SCHALTER MIT DISTANZRING

Title (fr)
COMMUTATEUR THERMODÉPENDANT DOTÉ DE BAGUE D'ESPACEMENT

Publication
EP 2958125 B1 20161130 (DE)

Application
EP 15171244 A 20150609

Priority
DE 102014108518 A 20140617

Abstract (en)
[origin: US2015364284A1] A temperature-dependent switch has a temperature-dependent switching mechanism arranged in a housing having an upper part and a lower part. A first contact area is arranged on an inner side of the upper part and a second contact area is arranged internally in the lower part, the switching mechanism producing, in temperature-dependent fashion, an electrically conductive connection between the first and second contact areas. The switching mechanism comprises a current transfer element, a bimetallic snap-action disc and a movable contact area. The moveable contact area is connected to the current transfer element and interacts with the first contact area, the bimetallic snap-action disc lifting off the movable contact area from the first contact area depending on the temperature of the bimetallic snap-action disc. A resistance ring is arranged between the upper part and the lower part and is electrically in series with the current transfer element between the first and second contact areas when the switch is in its closed state.

IPC 8 full level
H01H 37/54 (2006.01); **H01H 1/58** (2006.01)

CPC (source: CN EP US)
H01H 1/58 (2013.01 - EP US); **H01H 5/04** (2013.01 - US); **H01H 37/52** (2013.01 - CN); **H01H 37/54** (2013.01 - EP US);
H01H 37/5427 (2013.01 - EP US); **H01H 37/5436** (2013.01 - CN); **H01H 61/04** (2013.01 - US); **H01H 2037/5472** (2013.01 - CN);
H01H 2037/5481 (2013.01 - CN)

Cited by
DE102017000808B4

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 2958125 A1 20151223; EP 2958125 B1 20161130; CN 105185653 A 20151223; CN 105185653 B 20171212;
DE 102014108518 A1 20151217; HK 1214031 A1 20160812; US 2015364284 A1 20151217; US 9697974 B2 20170704

DOCDB simple family (application)
EP 15171244 A 20150609; CN 201510338447 A 20150617; DE 102014108518 A 20140617; HK 16102003 A 20160223;
US 201514734352 A 20150609