

Title (en)

Switching device with cooling device

Title (de)

Schaltgerät mit Entwärmungsvorrichtung

Title (fr)

Commutateur doté d'un dispositif de dissipation de la chaleur

Publication

EP 2413338 B1 20170830 (DE)

Application

EP 10008006 A 20100730

Priority

EP 10008006 A 20100730

Abstract (en)

[origin: EP2413338A1] The switchgear has a movable switching contact placed in a thermally operated tripper by a contact bridge support. The contact bridge support is mounted on a spring, and located opposite to fixed contacts (8, 9). Cooling devices (27, 28) made of heat-dissipating material are located sideward to the fixed contacts. The cooling devices are designed as heat sinks (29) that are formed as respective cooling fins. The cooling devices are located on a switching tongue (15) of the thermally operated tripper, and in a wall of a housing that acts as a separator between phases.

IPC 8 full level

H01H 1/62 (2006.01); **H01H 71/14** (2006.01)

CPC (source: EP KR US)

H01H 1/62 (2013.01 - EP KR US); **H01H 71/14** (2013.01 - EP KR US); **H01H 9/52** (2013.01 - US); **H01H 2009/526** (2013.01 - US)

Citation (examination)

- EP 2251887 A1 20101117 - ABB AG [DE]
- DE 876563 C 19530515 - SIEMENS AG
- DE 1096468 B 19610105 - LICENTIA GMBH

Cited by

CN107591263A

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 SE SI SK SM TR

DOCDB simple family (publication)

EP 2413338 A1 20120201; **EP 2413338 B1 20170830**; BR 112013002339 A2 20160524; BR 112013002339 A8 20161018; BR 112013002339 B1 20201027; CN 103003905 A 20130327; CN 103003905 B 20160803; EP 2564407 A1 20130306; KR 101578341 B1 20151217; KR 20130041282 A 20130424; US 2013118869 A1 20130516; US 9799462 B2 20171024; WO 2012013440 A1 20120202

DOCDB simple family (application)

EP 10008006 A 20100730; BR 112013002339 A 20110630; CN 201180034646 A 20110630; EP 11730945 A 20110630; EP 2011061049 W 20110630; KR 20137005094 A 20110630; US 201113811050 A 20110630