

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 A1 20120201 (DE)

Application

EP 10008006 A 20100730

Priority

EP 10008006 A 20100730

Abstract (en)

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.

Abstract (de)

Die Erfindung betrifft ein Schaltgerät, insbesondere einen Leistungsschalter mit einem thermischen Auslöser (2), an welchem über einen Kontaktbrückenträger (3) ein bewegliches Schaltstück (4) angeordnet ist, welches auf einem Federkörper (7) gelagert ist und gegenüberliegend von festen Schaltstücken (8, 9) angeordnet ist. Die Erfindung zeichnet sich dadurch aus, dass eine Entwärmungsvorrichtung (27, 28, 29) aus einem wärmeableitenden Material jeweils seitlich an den festen Schaltstücken (8, 9) angeordnet ist.

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 (search report)

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- [X] DE 102006057814 A1 20080410 - SIEMENS AG [DE]
- [A] US 2906839 A 19590929 - STUART ASHE THOMAS, et al
- [A] EP 1484776 A2 20041208 - SIEMENS AG [DE]
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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

Designated extension state (EPC)

BA ME RS

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