

Title (en)
ELECTROMAGNETIC SWITCH DEVICE

Title (de)
ELEKTROMAGNETISCHE SCHALTVORRICHTUNG

Title (fr)
DISPOSITIF DE COMMUTATION ÉLECTROMAGNÉTIQUE

Publication
EP 2226826 A1 20100908 (EN)

Application
EP 08864903 A 20081212

Priority
• JP 2008003745 W 20081212
• JP 2007333465 A 20071226

Abstract (en)
In an electromagnetic switch device incorporated with fuse terminals (31, 32, 36, 37) for at least one fuse (41), a terminal holder (12) retaining fuse terminals therein is fit onto an open end of a switch casing (11) that receives an electromagnetic coil (13) and associated component parts, and the terminal holder includes a peripheral wall (12A) that opposes a side wall of the switch casing in an overlapping relationship and defining a small gap (51) therebetween. At least one of the terminal pieces includes a heat dissipating extension (34A, 35A) extending into the gap between the peripheral wall of the terminal holder and opposing side wall of the switch casing. The heat dissipating extension promotes the dissipation of the heat conducted through the corresponding terminal piece to the ambient air. The improved heat dissipation contributes to the improvement in the electric properties of the electromagnetic switch device, and ensures a high reliability.

IPC 8 full level
H01H 50/12 (2006.01); **F02N 11/00** (2006.01); **F02N 11/08** (2006.01); **H01H 9/10** (2006.01); **H01H 50/04** (2006.01); **H01H 50/14** (2006.01); **H01H 85/47** (2006.01)

CPC (source: EP)
F02N 11/087 (2013.01); **H01H 9/10** (2013.01); **H01H 50/12** (2013.01); **H01H 50/14** (2013.01); **H01H 85/47** (2013.01); **F02N 11/10** (2013.01); **F02N 11/101** (2013.01); **F02N 2011/0892** (2013.01); **H01H 51/065** (2013.01); **H01H 85/2035** (2013.01)

Cited by
DE102015224278A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
EP 2226826 A1 20100908; **EP 2226826 A4 20130821**; **EP 2226826 B1 20140226**; BR PI0821607 A2 20150616; BR PI0821607 B1 20190820; CN 101874280 A 20101027; CN 101874280 B 20130320; JP 2009158221 A 20090716; JP 4950871 B2 20120613; WO 2009081535 A1 20090702

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EP 08864903 A 20081212; BR PI0821607 A 20081212; CN 200880117926 A 20081212; JP 2007333465 A 20071226; JP 2008003745 W 20081212