

Title (en)
Electromagnetic relay

Title (de)
Elektromagnetisches Relais

Title (fr)
Relais électromagnétique

Publication
EP 2551870 A1 20130130 (EN)

Application
EP 12175519 A 20120709

Priority
JP 2011164191 A 20110727

Abstract (en)
An electromagnetic relay includes an electromagnet; an armature driven by a magnetic force of the electromagnet and configured to rotate with respect to the electromagnet; a card configured to linearly move when pressed by the armature; a movable contact point moving together with the card; a fixed contact point with which the movable contact point comes into contact or out of contact in response to rotation of the armature; and a housing for storing the electromagnet, the armature, the card, the movable contact point and the fixed contact point, the electromagnet and the fixed contact point being fixed to the housing. The armature includes at least one armature member made of a magnetic material and a connector piece made of a plastically deformable material, the connector piece being arranged between the armature member and the card.

IPC 8 full level
H01H 1/48 (2006.01); **H01H 1/34** (2006.01); **H01H 11/00** (2006.01); **H01H 50/64** (2006.01); **H01H 51/22** (2006.01); **H01H 69/01** (2006.01)

CPC (source: EP)
H01H 1/34 (2013.01); **H01H 50/642** (2013.01); **H01H 51/2227** (2013.01); **H01H 69/01** (2013.01); **H01H 51/2272** (2013.01);
H01H 2011/0075 (2013.01)

Citation (applicant)
JP H0424242 U 19920227

Citation (search report)
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• [A] US 2547131 A 19510403 - JAY LEWUS ALEXANDER
• [A] WO 2010090619 A2 20100812 - CLODI L L C [US]
• [A] US 2011048907 A1 20110303 - MOELLER MATTHEW LEN [US], et al

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EP2945175A1; GB2511569A; GB2511569B; CN105283940A; US9761382B2; WO2014135898A1; US10032570B2; US11011324B2

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

Designated extension state (EPC)
BA ME

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EP 2551870 A1 20130130; **EP 2551870 B1 20140129**; CN 102903574 A 20130130; CN 102903574 B 20160427; ES 2445806 T3 20140305;
JP 2013030309 A 20130207; JP 5821030 B2 20151124

DOCDB simple family (application)
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