

Title (en)

Relay with improved insulating properties

Title (de)

Relais mit verbesserten Isolationseigenschaften

Title (fr)

Relais doté de propriétés d'isolation améliorées

Publication

EP 2645398 A1 20131002 (DE)

Application

EP 13161364 A 20130327

Priority

DE 102012006432 A 20120330

Abstract (en)

The relay has an electromagnet system including electromagnetic pole shoes (3, 4) defining relay sides. A relay housing receives the system, a fixed contact (21) and another fixed contact, which are arranged adjacent to each other at one of the sides. The contacts are spatially separated from the system and connected with connecting pins (43, 44). A load switch (20) includes a contact spring (24) with a bridge contact (23) that interacts with the contacts for bridging or separating the contacts according to a position of an armature (12). The switch is surrounded by insulating material walls. The load switch is an operating contact switch.

Abstract (de)

Elektromagnetisches Relais, gegen Kriechströme gewappnet. Ein Lastschalter (20) ist von dem Elektromagnetsystem räumlich getrennt angeordnet und ist von Isolationsmaterialwänden umgeben. Ein Diagnoseschalter (30) kann ähnlich angeordnet werden.

IPC 8 full level

H01H 50/02 (2006.01); **H01H 51/22** (2006.01)

CPC (source: EP)

H01H 50/026 (2013.01); **H01H 51/2272** (2013.01)

Citation (applicant)

- US 4703293 A 19871027 - ONO KENJI [JP], et al
- US 6107903 A 20000822 - SAKO KAZUMI [JP], et al

Citation (search report)

- [XAY] JP S53855 A 19780107 - MATSUSHITA ELECTRIC WORKS LTD
- [YA] DE 19705508 C1 19980820 - SIEMENS AG [DE]
- [A] US 6670871 B1 20031230 - SASO HIROFUMI [JP], et al
- [A] EP 0780870 A2 19970625 - SIEMENS AG [DE]

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

DOCDB simple family (publication)

EP 2645398 A1 20131002; **EP 2645398 B1 20170201**; DE 102012006432 A1 20131002; DE 102012006432 B4 20131031; ES 2617048 T3 20170615

DOCDB simple family (application)

EP 13161364 A 20130327; DE 102012006432 A 20120330; ES 13161364 T 20130327