Title (en)

BI-STABLE RELAY

Title (de)

BISTABILES RELAIS

Title (fr)

RELAIS BISTABLE

Publication

EP 3185273 A1 20170628 (EN)

Application

EP 16205806 A 20161221

Priority

EP 15003650 A 20151222

Abstract (en)

The invention is about a bi-stable relay consisting of a supporting structure carrying at least one set of electrical contacts, a U-shaped magnetic core being fixed to the supporting structure, electrical winding around the said core, and an armature provided with means to pivot around a rotation axis and where the said armature comprises a frame supporting two springs, at least one contact bridge, one or more permanent magnets, and two flux guides characterized in that - the flux guides are symmetrically or almost symmetrically arranged with respect to the rotation axis - the flux guides and the magnetic core feature a planar layout - the major plane of the flux guides is positioned perpendicular to the major plane of the magnetic core - the flux guides and the magnetic core are made from one or more laminations being stacked together - the center of mass of the frame is approximately located on the rotation axis.

IPC 8 full level

H01H 51/22 (2006.01); **H01H 51/27** (2006.01); H01H 50/22 (2006.01)

CPC (source: EP)

H01H 51/2272 (2013.01); **H01H 51/27** (2013.01); H01H 2050/225 (2013.01); H01H 2051/2218 (2013.01)

Citation (applicant)

- EP 0974155 B1 20021002 - SIEMENS ENERGY & AUTOMAT [US]
- DE 102009043105 A1 20100520 - ABB AG [DE]

Citation (search report)

- [YD] EP 0974155 B1 20021002 - SIEMENS ENERGY & AUTOMAT [US]
- [Y] GB 2193041 A 19880127 - BACH & CO
- [Y] US 2013229246 A1 20130905 - FUJITA KEN [JP], et al
- [Y] US 2009039989 A1 20090212 - REUBER CHRISTIAN [DE]
- [Y] JP 2012102398 A 20120531 - DOWA METALTECH KK

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)

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