Title (en)
ELECTROMAGNETIC RELAY ASSEMBLY

Title (de)
ELEKTROMAGNETISCHE RELAISBAUGRUPPE

Title (fr)
ENSEMBLE RELAIS ÉLECTROMAGNÉTIQUE

Publication
EP 2394285 A4 20140409 (EN)

Application
EP 09839782 A 20090204

Priority
US 2009000699 W 20090204

Abstract (en)
[origin: WO2010090619A2] An electromagnetic relay enables current to pass through switch termini and comprises a coil assembly, a rotor or bridge assembly, and a switch assembly. The coil assembly comprises a coil and a C-shaped core. The coil is wound round a coil axis extending through the core. The core comprises core termini parallel to the coil axis. The bridge assembly comprises a bridge and an actuator. The bridge comprises medial, lateral, and transverse field pathways. The actuator extends laterally from the lateral field pathway. The core termini are coplanar with the axis of rotation and received intermediate the medial and lateral field pathways. The actuator is cooperable with the switch assembly. The coil creates a magnetic field directable through the bridge assembly via the core termini for imparting bridge rotation about the axis of rotation. The bridge rotation displaces the actuator for opening and closing the switch assembly.

IPC 8 full level
H01H 51/22 (2006.01); H01H 50/64 (2006.01)

CPC (source: EP KR)
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Citation (search report)
- [X] EP 2009665 A2 20081231 - GRUNER AG [DE]
- [A] DE 19715261 C1 19981210 - GRUNER AG [DE]
- [A] DE 9320696 U1 19941124 - GRUNER KG RELAIS FABRIK [DE]
- [A] EP 0183867 A1 19860611 - MATSUSHITA ELECTRIC WORKS LTD [JP], et al
- See also references of WO 2010090619A2

Cited by
CN106206165A

Designated contracting state (EPC)
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