Title (en)

ELECTROMAGNETIC RELAY ASSEMBLY

Title (de)

ELEKTROMAGNETISCHE RELAISBAUGRUPPE

Title (fr)

ENSEMBLE RELAIS ÉLECTROMAGNÉTIQUE

Publication

EP 2394284 A2 20111214 (EN)

Application

EP 09839781 A 20090204

Priority

US 2009000698 W 20090204

Abstract (en)

[origin: WO2010090618A2] 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 1/18** (2006.01); **H01H 1/26** (2006.01); **H01H 1/50** (2006.01); **H01H 50/56** (2006.01); H01H 1/54 (2006.01); H01H 50/64 (2006.01)

CPC (source: EP KR)

H01H 1/18 (2013.01 - EP); **H01H 1/26** (2013.01 - EP); **H01H 1/50** (2013.01 - EP); **H01H 50/18** (2013.01 - KR); **H01H 50/56** (2013.01 - EP); **H01H 51/22** (2013.01 - KR); **H01H 51/2227** (2013.01 - EP); H01H 1/54 (2013.01 - EP); H01H 50/641 (2013.01 - EP); H01H 51/2272 (2013.01 - EP)

Cited by

US10811205B2; US2019013172A1; US10650996B2; US10784055B2; DE202019103631U1; WO2021001468A1; EP3968351A1

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WO 2010090618 A2 20100812; **WO 2010090618 A3 20111110**; AU 2009339409 A1 20110901; AU 2009339409 B2 20130725; BR PI0920364 A2 20200728; BR PI0920364 B1 20210720; CA 2751584 A1 20100812; CA 2751584 C 20140930; CN 102388427 A 20120321; CN 102388427 B 20150603; DK 2394284 T3 20160725; EP 2394284 A2 20111214; EP 2394284 A4 20140305; EP 2394284 B1 20160413; ES 2579934 T3 20160817; HR P20160626 T1 20160729; HU E029066 T2 20170228; JP 2012517092 A 20120726; JP 5349618 B2 20131120; KR 101269499 B1 20130531; KR 20110138345 A 20111227; MX 2011008162 A 20120927; PL 2394284 T3 20161130; PT 2394284 T 20160713; SI 2394284 T1 20160831; ZA 201105690 B 20121227

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