

Title (en)  
ELECTROMAGNETIC RELAY ASSEMBLY

Title (de)  
ELEKTROMAGNETISCHE RELAISBAUGRUPPE

Title (fr)  
ENSEMBLE RELAIS ÉLECTROMAGNÉTIQUE

Publication  
**EP 2394285 A2 20111214 (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)  
**H01H 1/50** (2013.01 - EP); **H01H 50/44** (2013.01 - KR); **H01H 50/56** (2013.01 - EP); **H01H 50/642** (2013.01 - EP); **H01H 51/22** (2013.01 - KR); **H01H 51/2227** (2013.01 - EP); **H01H 51/2272** (2013.01 - EP); **H01H 1/18** (2013.01 - EP)

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**WO 2010090619 A2 20100812; WO 2010090619 A3 20101007; WO 2010090619 A4 20101125**; AU 2009339410 A1 20110901; AU 2009339410 A2 20111201; AU 2009339410 B2 20131010; BR PI0920362 A2 20200728; BR PI0920362 B1 20211207; CA 2751585 A1 20100812; CA 2751585 C 20141007; CN 102405507 A 20120404; CN 102405507 B 20150603; EP 2394285 A2 20111214; EP 2394285 A4 20140409; EP 2394285 B1 20151216; EP 2394285 B8 20160224; ES 2564637 T3 20160328; JP 2012517093 A 20120726; JP 5351982 B2 20131127; KR 101313676 B1 20131002; KR 20110111533 A 20111011; MX 2011008110 A 20111208; PT 2394285 E 20160329; ZA 201105691 B 20130130

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