

Title (en)
Electromagnetic relay

Title (de)
Elektromagnetisches Relais

Title (fr)
Relais électromagnétique

Publication
EP 0791944 A3 19981007 (DE)

Application
EP 97102087 A 19970210

Priority
DE 19606884 A 19960223

Abstract (en)
[origin: US5844456A] An electromagnetic relay is provided with an electromagnet system with a U-shaped core yoke and an essentially flat armature, which form a working air gap on a longitudinal side underneath the coil winding. One yoke limb lies immediately on the coil winding, so that the make motion of the armature is towards the coil. In this way, a relatively large contact room is formed underneath the yoke limb and a movable contact spring extends approximately parallel under the armature. The contact spring is actuated by the armature which draws an actuating element. The relay enables a relay for high switching capacity with a changeover contact and with large insulating distances between the magnet system and the contact arrangement.

IPC 1-7
H01H 50/02; **H01H 50/24**; **H01H 50/56**

IPC 8 full level
H01H 50/02 (2006.01); **H01H 50/24** (2006.01); **H01H 50/44** (2006.01); **H01H 50/56** (2006.01); **H01H 51/06** (2006.01); **H01H 50/16** (2006.01); **H01H 50/58** (2006.01)

CPC (source: EP US)
H01H 50/026 (2013.01 - EP US); **H01H 50/24** (2013.01 - EP US); **H01H 50/56** (2013.01 - EP US); **H01H 50/16** (2013.01 - EP US); **H01H 50/58** (2013.01 - EP US); **H01H 2050/044** (2013.01 - EP US); **H01H 2050/365** (2013.01 - EP US)

Citation (search report)
• [A] DE 3150301 A1 19830707 - GRUNER GMBH & CO ELEKTROTECHNI [DE]
• [A] FR 2623935 A1 19890602 - GEPE [FR]
• [A] FR 2454692 A1 19801114 - RAUSCH & PAUSCH [DE]
• [A] EP 0213066 A2 19870304 - PAUL & SIEDLER GMBH & CO KG [DE]
• [DA] EP 0375398 A2 19900627 - MATSUSHITA ELECTRIC WORKS LTD [JP]

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EP1467394A1

Designated contracting state (EPC)
AT CH DE ES FR GB IT LI

DOCDB simple family (publication)
US 5844456 A 19981201; AT E217118 T1 20020515; DE 19606884 C1 19970430; DE 59707127 D1 20020606; EP 0791944 A2 19970827; EP 0791944 A3 19981007; EP 0791944 B1 20020502; ES 2175201 T3 20021116; JP 3779020 B2 20060524; JP H09320433 A 19971212

DOCDB simple family (application)
US 80525197 A 19970224; AT 97102087 T 19970210; DE 19606884 A 19960223; DE 59707127 T 19970210; EP 97102087 A 19970210; ES 97102087 T 19970210; JP 3871997 A 19970224