

Title (en)

Electromagnetic relay with combined return and contact spring

Title (de)

Elektromagnetisches Relais mit kombinierter Kontakt-und Rückstellfeder

Title (fr)

Relais électromagnétique avec ressort de contact et de rappel combiné

Publication

EP 0791945 B1 20020109 (DE)

Application

EP 97102089 A 19970210

Priority

DE 19606883 A 19960223

Abstract (en)

[origin: DE19606883C1] The relay has a magnetic system (4) which includes a coil (41,42), a stationary core and yoke (43) and a pivoted armature (44) and a contact device (2) with an elongate contact spring (22) having a movable contact (29) and at least one contact carrier (25,27) supporting a cooperating stationary contact (26,28). An operating element (3) is coupled to the armature and the contact spring, the latter forming part of a switching spring (21) with a resetting spring section (23b) for the operating element lying in the same plane as the contact spring.

IPC 1-7

H01H 50/02; **H01H 50/24**; **H01H 50/56**; **H01H 50/54**

IPC 8 full level

H01H 50/56 (2006.01); **H01H 50/02** (2006.01); **H01H 50/24** (2006.01); **H01H 50/54** (2006.01); **H01H 50/64** (2006.01); **H01H 51/06** (2006.01); **H01H 50/26** (2006.01)

CPC (source: EP US)

H01H 50/54 (2013.01 - EP US); **H01H 50/26** (2013.01 - EP US); **H01H 51/06** (2013.01 - EP US)

Designated contracting state (EPC)

AT CH DE ES FR GB IT LI

DOCDB simple family (publication)

US 5801608 A 19980901; AT E211851 T1 20020115; DE 19606883 C1 19970430; DE 59705943 D1 20020214; EP 0791945 A2 19970827; EP 0791945 A3 19981118; EP 0791945 B1 20020109; ES 2167627 T3 20020516; JP 3902688 B2 20070411; JP H09320438 A 19971212

DOCDB simple family (application)

US 80460897 A 19970224; AT 97102089 T 19970210; DE 19606883 A 19960223; DE 59705943 T 19970210; EP 97102089 A 19970210; ES 97102089 T 19970210; JP 3872197 A 19970224