Title (en)

POLARISED ELECTROMAGNETIC RELAY

Publication

EP 0072976 B1 19850724 (DE)

Application

EP 82107303 A 19820811

Priority

DE 3132244 A 19810814

Abstract (en)

[origin: US4509025A] An electromagnetic relay has a hallow coil body and coil having a longitudinal axis with a bar-shaped armature pivotably mounted for movement in and extending through the coil body, a permanent magnet arrangement having polarization directions perpendicular to the coil axis, two yokes disposed in a single plain parallel to the permanent magnet arrangement, two pole plates connected to the yokes and also extending perpendicular to the coil axis, and a flux plate overlapping and spaced from the yokes and having a flat segment with the magnet arrangement being disposed in the volume defined between the overlapping area of the flux plate and the yokes, the magnet arrangement extending substantially longitudinally parallel to the coil axis. The structural arrangement of the flux plate and yokes so as to define a volume which can accommodate the magnet system permits the magnet system to be encompassed within the relay without adding to the overall length thereof, thereby adapting the relay to miniaturization. Additionally, the surfaces of the yokes and permanent magnet can exhibit a relatively large area, again without causing any increase in the length of the relay.

IPC 1-7

H01H 51/22

IPC 8 full level

H01H 50/42 (2006.01); **H01H 51/22** (2006.01); **H01H 51/24** (2006.01)

CPC (source: EP US)

H01H 51/2245 (2013.01 - EP US)

Cited by

EP0167942A1

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI NL SE

DOCDB simple family (publication)

EP 0072976 A1 19830302; **EP 0072976 B1 19850724**; AT E14491 T1 19850815; DE 3132244 A1 19830303; DE 3132244 C2 19830519; DE 3264911 D1 19850829; JP S5838433 A 19830305; JP S6355176 B2 19881101; US 4509025 A 19850402

DOCDB simple family (application)

EP 82107303 A 19820811; AT 82107303 T 19820811; DE 3132244 A 19810814; DE 3264911 T 19820811; JP 13996982 A 19820813; US 40123582 A 19820723