

Title (en)

Electromagnetic drive and polarized relay.

Title (de)

Elektromagnetischer Antrieb und polarisiertes Relais.

Title (fr)

Entraînement électromagnétique et relais polarisé.

Publication

EP 0157029 A1 19851009 (EN)

Application

EP 84302339 A 19840405

Priority

- EP 84302339 A 19840405
- US 76286085 A 19850806
- US 59671784 A 19840404

Abstract (en)

A polarized relay with an electromagnetic drive comprises an electromagnetic yoke composed of a core (13) wound with a coil (14) and a yoke body (16), and having one end portion (13a) of one magnetic polarity and a pair of bifurcated end portions (19a, 19b) of the other magnetic polarity opposite to the one magnetic polarity. The bifurcated end portions are separated in opposition from each other. The one end portion of the yoke is disposed between the bifurcated end portions so as to cooperate to form a pair of working gaps (20a, 20b). A movable block (23) of a substantially C-like configuration incorporating a permanent magnet (21) has two magnetic pole pieces (22a, 22b) which are disposed within the working gaps, respectively. Guide is provided for guiding the movable block in response to energization and deenergization of the coil so that the pole pieces are movable within the respective working gaps. A contact mechanism including movable contacts is mechanically coupled to the movable block to make or break circuit.

IPC 1-7

H01F 7/08; **H01H 51/22**

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

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- [A] DE 2934558 A1 19800313 - SAUER HANS
- [A] DE 2728629 A1 19780112 - MANUMESURE CONCHES EN OUCHE
- [A] PATENT ABSTRACTS OF JAPAN vol. 7, no. 36, 15th February 1983, page (E158) (1181); & JP-A-57-188816 (MATSUSHITA DENKO) 19-11-1982

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