

Title (en)  
POLARIZED ELECTROMAGNETIC RELAY.

Title (de)  
POLARISIERTES ELEKTROMAGNETISCHES RELAIS.

Title (fr)  
RELAIS ELECTROMAGNETIQUE POLARISE.

Publication  
**EP 0630516 B1 19951122 (DE)**

Application  
**EP 93905171 A 19930309**

Priority  
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• DE 4208164 A 19920313

Abstract (en)  
[origin: WO9318534A1] A relay has a static core arranged inside the coil (12), and a swivelling armature arranged at one end of the coil that forms, together with two pole shoes (31, 32) at the other end of the coil, working air gaps with respect to one end of the core. The armature has two pole plate sections (31a, 32a) arranged in the extension of both pole shoes in a common plane outside of the coil and parallel to the axis of the coil, where they are coupled to one side of a four-pole permanent magnet. Both opposite poles of the permanent magnet are coupled to a flux plate which in turn forms a feedback to the core. With this system a polarized relay is obtained whose magnetic cross-sections can be very easily optimized and whose switching characteristic can be easily adjusted by balancing the permanent magnet. In addition, it is possible to easily separate the magnetic system from contact systems by means of appropriate insulating walls.

IPC 1-7  
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IPC 8 full level  
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IPC 8 main group level  
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