

Title (en)  
RELAY MAGNET RETENTION APPARATUS

Title (de)  
POLARISIERTES RELAIS MIT FESTHALTEVORRICHTUNG FÜR DEN PERMANENTMAGNETEN

Title (fr)  
DISPOSITIF DE RETENUE D'UN AIMANT DE RELAIS

Publication  
**EP 0950253 B1 20011121 (EN)**

Application  
**EP 97952536 A 19971217**

Priority  
• US 9723439 W 19971217  
• US 77898197 A 19970106

Abstract (en)  
[origin: WO9831036A1] An electromagnetic relay includes a base, an electromagnet block including a permanent magnet, a core, a bobbin, a winding about the core, and a pair of pole pieces extending perpendicularly from the core. The relay includes at least one magnet retention element formed on at least one of the pole pieces to retain the magnet in operative juxtaposition.

IPC 1-7  
**H01H 50/04**; **H01H 51/22**

IPC 8 full level  
**H01H 50/04** (2006.01); **H01H 50/44** (2006.01); **H01H 51/22** (2006.01)

CPC (source: EP KR)  
**H01H 50/04** (2013.01 - EP KR); **H01H 51/22** (2013.01 - EP)

Cited by  
EP3211653A1

Designated contracting state (EPC)  
DE ES FR GB IT

DOCDB simple family (publication)  
**WO 9831036 A1 19980716**; BR 9714520 A 20000509; CA 2276751 A1 19980716; CN 1123901 C 20031008; CN 1244291 A 20000209; DE 69709786 D1 20020221; DE 69709786 T2 20020620; EP 0950253 A1 19991020; EP 0950253 B1 20011121; ES 2167024 T3 20020501; JP 2001508232 A 20010619; KR 20000069919 A 20001125; TW 442810 B 20010623

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**US 9723439 W 19971217**; BR 9714520 A 19971217; CA 2276751 A 19971217; CN 97181266 A 19971217; DE 69709786 T 19971217; EP 97952536 A 19971217; ES 97952536 T 19971217; JP 53090098 A 19971217; KR 19997006132 A 19990706; TW 87100125 A 19980109