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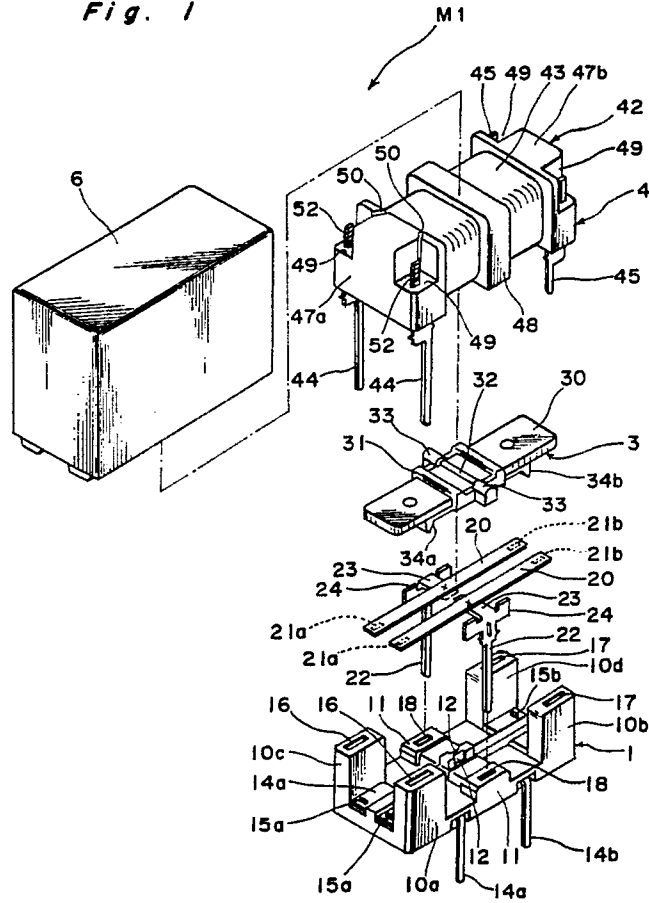
(54) **Electromagnetic relay.**

(57) An electromagnetic relay which includes a base, fixed contact terminals having fixed contacts, and movable contact terminals supporting intermediate portions of movable contact arms each provided, at opposite ends thereof, with movable contacts confronting the fixed contacts, with the fixed contact terminals and the movable contact terminals being forced into the base to be fixed in it, an electromagnet block in which a coil is wound, through a spool,

onto a core generally in an inverted U-shape provided with a permanent magnet at its central portion, and an armature block attracted and pivotally held by the permanent magnet so that opposite ends of the armature block confront pole face of the core. The electromagnet block is assembled above the movable contact arms, so as to allow the contacts to be closed through depression of the movable contact arms by the armature block.

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Fig. 1





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# EUROPEAN SEARCH REPORT

Application Number

EP 89 11 5585

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
X	EP-A-0 118 715 (SIEMENS AG) * Page 5, line 24 - page 7, line 30; figure 1; page 12, line 18 - page 13, line 24; figures 20-24 *	1,2	H 01 H 51/22
Y	---	3,4	
Y	US-A-3 079 478 (G.M. PAHUD) * Column 2, lines 9-43; figures 3-5 *	3,4	
A	---	5,6	
A	EP-A-0 100 165 (NEC) * Page 11, line 22 - page 12, line 19 *	5,6	
Y	---	7	
Y	FR-A-2 338 564 (ELESTA AG. ELEKTRONIK) * Page 7, line 17 - page 8; figure 4 *	7	
Y	---	7	
A	CH-A- 384 056 (ASSOCIATED ELECTRICAL INDUSTRIES LTD) * The whole document *	7	TECHNICAL FIELDS SEARCHED (Int. Cl.5)
A	---	7	H 01 H H 01 F
A	US-A-3 624 571 (THERMOSEN INC.) * Column 2, lines 26-67; figure 1 *	7	
A	---	7	
A	GB-A-2 072 949 (ROBERT BOSCH)	7	
A	---	7	
Y	EP-A-0 100 165 (NEC)	8	
Y	---	8	
Y	GB-A-2 066 577 (ERICSSON) * Page 3, right-hand column, lines 93-112; figure 3 *	8	
Y	---	8	
Y	EP-A-0 118 715 (SIEMENS AG) * The whole document *	8	
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The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 10-10-1990	Examiner OVERDIJK J.
<b>CATEGORY OF CITED DOCUMENTS</b> X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ..... & : member of the same patent family, corresponding document			



## CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- ☐ All claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for all claims.
- ☐ Only part of the claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid,  
namely claims:
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

X

## LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirement of unity of invention and relates to several inventions or groups of inventions,  
namely:

1. Claims 1-6: General assembly of a rockable relais.
2. Claim 7: Adjusting contact pressure.
3. Claim 8: Assymetric mounting movable member.

- ☒ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid,  
namely claims:
- ☐ None of the further search fees has been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims,  
namely claims: