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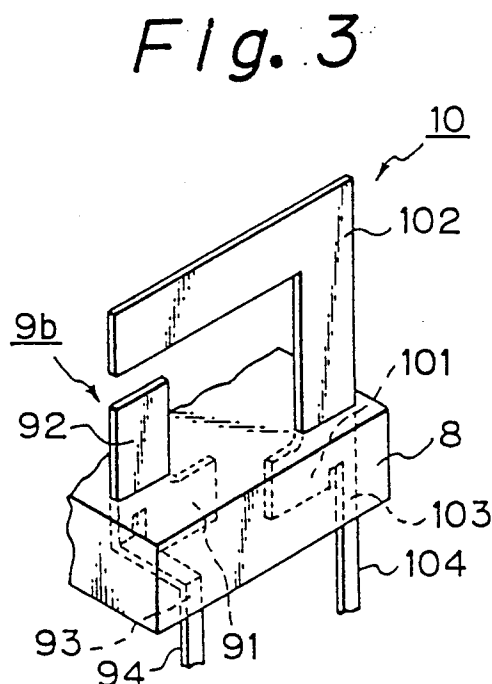
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(54) **Small sized electromagnetic relay.**

(57) In an electromagnetic relay a movable contact spring and a stationary contact spring (10) are inserted by molding a portion (91) of the movable contact spring and a portion (101) of the stationary contact spring (10) within the base block (8). The portions (91, 101) of the contact springs within the base block (8) are made larger than the respective portions thereof outside of the base block.





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EUROPEAN SEARCH REPORT

Application Number
EP 91 30 5903

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	DE-C-33 11 308 (SIEMENS AG.) * column 3, line 55 - column 4, line 8; figures 1,3,4 *	1,3,8	H01H50/54 H01H50/64 H01H50/02
Y	---	7	
X	US-A-4 656 733 (OMRON TATEISI) * column 13, line 65 - column 15, line 2; figures 6A-D *	1	
X	FR-A-2 618 601 (SCHRACK ELEKTROTECHNIK AG.) * page 9, line 10 - page 10, line 13; figure 1 *	1	
A	---	2,3	
Y	DE-A-28 13 150 (GRÜNDIG EMV.) * page 6, last paragraph - page 7, paragraph 1; figure 3 *	7	
A	---		
A	EP-A-0 333 113 (OMRON TATEISI)		TECHNICAL FIELDS SEARCHED (Int.Cl.5)
A	EP-A-0 332 181 (OMRON TATEISI)		H01H
X	EP-A-0 049 088 (FUJITSU LTD.) * page 8, line 15 - line 27; figure 1 *	4	
Y	---	5,6	
Y	EP-A-0 161 473 (HENGSTLER GMBH.) * the whole document *	5,6	
A	---		
A	EP-A-0 016 980 (SIEMENS AG.) * page 5, line 18 - line 27 *	4	
A	EP-A-0 249 025 (HENGSTLER BAUELEMENTE GMBH.) * figure 5 *	6	

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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 2 November 1993	Examiner OVERDIJK, J
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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</p> <p>& : member of the same patent family, corresponding document</p>			

EPO FORM 1503 03/92 (P04C01)



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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.

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:

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- ☐ 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: 1-8
- ☐ 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:



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EUROPEAN SEARCH REPORT

Application Number
EP 91 30 5903

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)
A	DE-A-38 08 558 (MATSUSHITA ELECTRIC WORKS LTD.) * figures 4,8 * -----		
			TECHNICAL FIELDS SEARCHED (Int.Cl.5)
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 2 November 1993	Examiner OVERDIJK, J
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EP 91 30 5903 -B-

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:

The first claim has been anticipated, which leaves several independent groups of claims which are no longer bound by one single inventive idea. Therefore non-unity a posteriori is claimed between the following group of claims:

1. Claims 1-3 and 7,8 deal with the assembly and design of the contact-terminal members.
2. Claims 4-6 deal with the card member connecting the armature and the movable contact spring.
3. Claim 9 deals with the insulation between the electromagnet and the contact members.
4. Claim 10 deals with the assembly of the coil on the base member.