

# SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application Number  
EP 14 84 1354

| DOCUMENTS CONSIDERED TO BE RELEVANT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                             |                                                            |                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-----------------------------------------|
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Citation of document with indication, where appropriate, of relevant passages                               | Relevant to claim                                          | CLASSIFICATION OF THE APPLICATION (IPC) |
| Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | US 2009/033446 A1 (GRUNER PHILIPP [US] ET AL) 5 February 2009 (2009-02-05)<br>* figures 5,8,10,12-19,21 *   | 1-8                                                        | INV.<br>H01H50/56<br>H01H9/38           |
| Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | DE 94 04 775 U1 (GRUNER KG RELAIS FABRIK [DE]) 9 June 1994 (1994-06-09)<br>* page 1, lines 4-21; figure 1 * | 1-8                                                        |                                         |
| Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | JP 2002 008506 A (NAGANO FUJITSU COMPONENT KK) 11 January 2002 (2002-01-11)<br>* figures 8,9 *              | 5                                                          |                                         |
| Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | JP 2005 183097 A (MATSUSHITA ELECTRIC WORKS LTD) 7 July 2005 (2005-07-07)<br>* figures 5a,5c *              | 6                                                          |                                         |
| Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | JP H02 7840 U (OMRON TATEISI ELECTRONICS CO.) 18 January 1990 (1990-01-18)<br>* figures 4-6 *               | 7,8                                                        |                                         |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                             |                                                            | H01H                                    |
| The supplementary search report has been based on the last set of claims valid and available at the start of the search.                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                             |                                                            |                                         |
| Place of search<br><b>Munich</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                             | Date of completion of the search<br><b>18 October 2017</b> | Examiner<br><b>Arenz, Rainer</b>        |
| <p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone<br/>Y : particularly relevant if combined with another document of the same category<br/>A : technological background<br/>O : non-written disclosure<br/>P : intermediate document</p> <p>T : theory or principle underlying the invention<br/>E : earlier patent document, but published on, or after the filing date<br/>D : document cited in the application<br/>L : document cited for other reasons<br/>&amp; : member of the same patent family, corresponding document</p> |                                                                                                             |                                                            |                                         |

**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
The members are as contained in the European Patent Office EDP file on  
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

18-10-2017

| Patent document<br>cited in search report |    | Publication<br>date | Patent family<br>member(s)       | Publication<br>date      |
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