

# SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application Number  
EP 09 81 2796

| 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 4 544 055 A (KRONSTADT VICTOR [US])<br>1 October 1985 (1985-10-01)<br>* column 2, line 55 - column 4, line 60;<br>figures 1-3 *                     | 1-4                                                         | INV.<br>F16D13/72<br>F16D13/74<br>F16D23/14 |
| Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | GB 2 203 217 A (QUINTON HAZELL AUTOMOTIVE)<br>12 October 1988 (1988-10-12)<br>* page 3, line 10 - page 5, line 27;<br>figures 2,3 *                    | 1-4                                                         |                                             |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | US 5 638 932 A (MIZUKAMI HIROSHI [JP])<br>17 June 1997 (1997-06-17)<br>* column 7, line 49 - line 59 *<br>* column 9, line 32 - line 38; figures 1,2 * | 1-4                                                         |                                             |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | US 4 373 622 A (MICHAEL RICHARD A)<br>15 February 1983 (1983-02-15)<br>* figure 1 *                                                                    | 1,2                                                         |                                             |
| The supplementary search report has been based on the last set of claims valid and available at the start of the search.                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                        |                                                             | TECHNICAL FIELDS SEARCHED (IPC)             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                        |                                                             | F16D<br>F16F                                |
| Place of search<br><b>The Hague</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                        | Date of completion of the search<br><b>13 November 2017</b> | Examiner<br><b>Van Overbeeke, Sim</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  
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13-11-2017

| Patent document<br>cited in search report |   | Publication<br>date | Patent family<br>member(s) | Publication<br>date |
|-------------------------------------------|---|---------------------|----------------------------|---------------------|
| US 4544055                                | A | 01-10-1985          | NONE                       |                     |
| -----                                     |   |                     |                            |                     |
| GB 2203217                                | A | 12-10-1988          | NONE                       |                     |
| -----                                     |   |                     |                            |                     |
| US 5638932                                | A | 17-06-1997          | DE 19517968 A1             | 30-11-1995          |
|                                           |   |                     | US 5638932 A               | 17-06-1997          |
| -----                                     |   |                     |                            |                     |
| US 4373622                                | A | 15-02-1983          | AR 228288 A1               | 15-02-1983          |
|                                           |   |                     | AU 539470 B2               | 27-09-1984          |
|                                           |   |                     | BR 8106901 A               | 13-07-1982          |
|                                           |   |                     | CA 1170591 A               | 10-07-1984          |
|                                           |   |                     | DE 3175116 D1              | 18-09-1986          |
|                                           |   |                     | EP 0050759 A2              | 05-05-1982          |
|                                           |   |                     | ES 8300961 A1              | 01-02-1983          |
|                                           |   |                     | JP H0221449 B2             | 15-05-1990          |
|                                           |   |                     | JP S57101130 A             | 23-06-1982          |
|                                           |   |                     | US 4373622 A               | 15-02-1983          |
|                                           |   |                     | ZA 8106651 B               | 27-04-1983          |
| -----                                     |   |                     |                            |                     |