

# PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

| SUBMISSION TYPE:                                                                                                                                                                                                                                                                                                                                                                  | NEW ASSIGNMENT           |               |                   |                     |                |               |                          |                  |            |              |          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------|-------------------|---------------------|----------------|---------------|--------------------------|------------------|------------|--------------|----------|
| NATURE OF CONVEYANCE:                                                                                                                                                                                                                                                                                                                                                             | ASSIGNMENT               |               |                   |                     |                |               |                          |                  |            |              |          |
| <b>CONVEYING PARTY DATA</b>                                                                                                                                                                                                                                                                                                                                                       |                          |               |                   |                     |                |               |                          |                  |            |              |          |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Mikio TERAMURA</td> <td>04/16/2009</td> </tr> <tr> <td>Takeo UMESAKA</td> <td>04/16/2009</td> </tr> <tr> <td>Takeshi SUGANUMA</td> <td>04/16/2009</td> </tr> </tbody> </table>      |                          | Name          | Execution Date    | Mikio TERAMURA      | 04/16/2009     | Takeo UMESAKA | 04/16/2009               | Takeshi SUGANUMA | 04/16/2009 |              |          |
| Name                                                                                                                                                                                                                                                                                                                                                                              | Execution Date           |               |                   |                     |                |               |                          |                  |            |              |          |
| Mikio TERAMURA                                                                                                                                                                                                                                                                                                                                                                    | 04/16/2009               |               |                   |                     |                |               |                          |                  |            |              |          |
| Takeo UMESAKA                                                                                                                                                                                                                                                                                                                                                                     | 04/16/2009               |               |                   |                     |                |               |                          |                  |            |              |          |
| Takeshi SUGANUMA                                                                                                                                                                                                                                                                                                                                                                  | 04/16/2009               |               |                   |                     |                |               |                          |                  |            |              |          |
| <b>RECEIVING PARTY DATA</b>                                                                                                                                                                                                                                                                                                                                                       |                          |               |                   |                     |                |               |                          |                  |            |              |          |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>DENSO CORPORATION</td> </tr> <tr> <td>Street Address:</td> <td>1-1, Showa-cho</td> </tr> <tr> <td>City:</td> <td>Kariya-city, Aichi-pref.</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>448-8661</td> </tr> </table> |                          | Name:         | DENSO CORPORATION | Street Address:     | 1-1, Showa-cho | City:         | Kariya-city, Aichi-pref. | State/Country:   | JAPAN      | Postal Code: | 448-8661 |
| Name:                                                                                                                                                                                                                                                                                                                                                                             | DENSO CORPORATION        |               |                   |                     |                |               |                          |                  |            |              |          |
| Street Address:                                                                                                                                                                                                                                                                                                                                                                   | 1-1, Showa-cho           |               |                   |                     |                |               |                          |                  |            |              |          |
| City:                                                                                                                                                                                                                                                                                                                                                                             | Kariya-city, Aichi-pref. |               |                   |                     |                |               |                          |                  |            |              |          |
| State/Country:                                                                                                                                                                                                                                                                                                                                                                    | JAPAN                    |               |                   |                     |                |               |                          |                  |            |              |          |
| Postal Code:                                                                                                                                                                                                                                                                                                                                                                      | 448-8661                 |               |                   |                     |                |               |                          |                  |            |              |          |
| PROPERTY NUMBERS Total: 1                                                                                                                                                                                                                                                                                                                                                         |                          |               |                   |                     |                |               |                          |                  |            |              |          |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Property Type</th> <th style="width: 70%;">Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12428740</td> </tr> </tbody> </table>                                                                                                                 |                          | Property Type | Number            | Application Number: | 12428740       |               |                          |                  |            |              |          |
| Property Type                                                                                                                                                                                                                                                                                                                                                                     | Number                   |               |                   |                     |                |               |                          |                  |            |              |          |
| Application Number:                                                                                                                                                                                                                                                                                                                                                               | 12428740                 |               |                   |                     |                |               |                          |                  |            |              |          |
| <b>CORRESPONDENCE DATA</b>                                                                                                                                                                                                                                                                                                                                                        |                          |               |                   |                     |                |               |                          |                  |            |              |          |
| Fax Number: (703)816-4100<br><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i><br>Phone: 703-816-4000<br>Email: js@nixonvan.com<br>Correspondent Name: Michelle N. Lester<br>Address Line 1: NIXON & VANDERHYE, PC<br>Address Line 2: 901 NORTH GLEBE ROAD, 11TH FLOOR<br>Address Line 4: ARLINGTON, VIRGINIA 22203                            |                          |               |                   |                     |                |               |                          |                  |            |              |          |
| ATTORNEY DOCKET NUMBER:                                                                                                                                                                                                                                                                                                                                                           | MNL-2018-2296            |               |                   |                     |                |               |                          |                  |            |              |          |
| NAME OF SUBMITTER:                                                                                                                                                                                                                                                                                                                                                                | Michelle N. Lester       |               |                   |                     |                |               |                          |                  |            |              |          |
| Total Attachments: 1<br>source=ASSIGNMENT#page1.tif                                                                                                                                                                                                                                                                                                                               |                          |               |                   |                     |                |               |                          |                  |            |              |          |

OP \$40.00 12428740

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**PATENT**  
**REEL: 022587 FRAME: 0470**

**ASSIGNMENT OF U.S. PATENT APPLICATION**

(Inventors) Mikio Teramura  
Takeo Umesaka  
Takeshi Suganuma

In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to

(Assignee) DENSO CORPORATION a corporation of Japan

(Address) 1-1, Showa-cho, Kariya-city, Aichi-pref., 448-8661 Japan  
 (hereinafter designated as the Assignee) the undersigned's entire right, title and interest for the United States, its territories, dependencies and possessions in the invention, and all applications for patent and any Letters Patent which may be granted therefore, known as

(Title) ELECTRONIC CONTROL UNIT FOR VEHICLE  
 for which the undersigned has (have) executed on even date herewith an application for patent in the United States of America or, if not on even date, then has executed on \_\_\_\_\_ or has already filed U.S. application Serial No. \_\_\_\_\_, on \_\_\_\_\_.

The undersigned acknowledges an obligation of assignment of this invention to said assignee at the time the invention was made.

The undersigned agree(s) to execute all papers and documents necessary in connection with the application or any interference which may be declared and any continuing or divisional applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient and further to perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the firm of NIXON & VANDERHYE P.C. the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document. It is understood and agreed that ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned signature(s).

Date April 16, 2009 Signature of inventor Mikio Teramura  
Mikio Teramura

Date April 16, 2009 Signature of inventor Takeo Umesaka  
Takeo Umesaka

Date April 16, 2009 Signature of inventor Takeshi Suganuma  
Takeshi Suganuma

Date April 16, 2009 Witnessed by: Kenji Matsuda

Date April 16, 2009 Witnessed by: Kenji Matsuda

Date April 16, 2009 Witnessed by: Kenji Matsuda

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**PATENT**