

PATENT ASSIGNMENT

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| SUBMISSION TYPE: | NEW ASSIGNMENT | | | | |
|--|----------------------------|---------------|----------------|---------------------------------|------------|
| NATURE OF CONVEYANCE: | NUNC PRO TUNC ASSIGNMENT | | | | |
| EFFECTIVE DATE: | 07/06/2010 | | | | |
| CONVEYING PARTY DATA | | | | | |
| <table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Toyota Jidosha Kabushiki Kaisha</td> <td>03/11/2013</td> </tr> </tbody> </table> | | Name | Execution Date | Toyota Jidosha Kabushiki Kaisha | 03/11/2013 |
| Name | Execution Date | | | | |
| Toyota Jidosha Kabushiki Kaisha | 03/11/2013 | | | | |
| RECEIVING PARTY DATA | | | | | |
| Name: | Denso Croporation | | | | |
| Street Address: | 1-1, Showa-cho | | | | |
| Internal Address: | Kariya-shi | | | | |
| City: | Aichi-ken | | | | |
| State/Country: | JAPAN | | | | |
| Postal Code: | 448-8661 | | | | |
| PROPERTY NUMBERS Total: 1 | | | | | |
| <table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12865824</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 12865824 |
| Property Type | Number | | | | |
| Application Number: | 12865824 | | | | |
| CORRESPONDENCE DATA | | | | | |
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| NAME OF SUBMITTER: | Karen L. Hudson | | | | |
| Total Attachments: 2 source=360812 ASN#page1.tif source=360812 ASN#page2.tif | | | | | |

OP \$40.00 12865824

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c.c. p.c.c.

(11/08 0478-09)

NUNC PRO TUNC ASSIGNMENT

WHEREAS, Toyota Jidosha Kabushiki Kaisha having a place of business at 1, Toyota-cho, Toyota-shi, Aichi-ken, 471-8571, Japan, a corporation organized and existing under the laws of the Country of Japan, is the exclusive owner, by assignment, of the application for letters patent of the United States of America Application No. 12/865,824, filed August 2, 2010; and

WHEREAS, Denso Corporation having a place of business at 1-1, Showa-cho, Kariya-shi, Aichi-ken 448-8661, Japan, a corporation organized and existing under the laws of the Country of Japan (hereinafter referred to as "ASSIGNEE"), for good and valuable consideration the receipt of which is hereby acknowledged, acquired right, title and interest in and to said application for letters patent and the invention described therein effective July 6, 2010;

NOW, THEREFORE, Toyota Jidosha Kabushiki Kaisha by by these presents do sell, assign, and transfer unto said ASSIGNEE, *nunc pro tunc*, effective July 6, 2010, right, title and interest for the territory of the United States of America in and to the aforesaid application for letters patent and the invention described therein and in and to any and all Letters Patent which may be granted therefor and in and to any and all divisions, continuations, substitutions and renewals thereof.

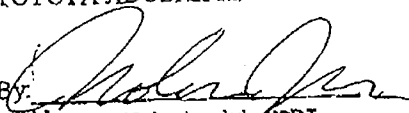
Toyota Jidosha Kabushiki Kaisha hereby authorizes and requests the Patent Office in the United States and its territorial possessions to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as a joint assignee of right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its successors

and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by Toyota Jidosha Kabushiki Kaisha had this Assignment and sale not been made.

IN TESTIMONY WHEREOF, Toyota Jidosha Kabushiki Kaisha, has caused these presents to be signed by its officer hereunto duly authorized.

TOYOTA JIDOSAH KABUSHIKI KAISHA

Date: March 11, 2013

By: 

Name: Nobutoshi MORI
Title: General Manager, IP promotion Dept. No.1
Intellectual Property Div.