

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Yusuke ABE</td> <td>08/30/2012</td> </tr> <tr> <td>Koji YUASA</td> <td>08/30/2012</td> </tr> <tr> <td>Toshihisa ARAI</td> <td>08/30/2012</td> </tr> </tbody> </table>		Name	Execution Date	Yusuke ABE	08/30/2012	Koji YUASA	08/30/2012	Toshihisa ARAI	08/30/2012		
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<table border="1"> <tr> <td>Name:</td> <td>Hitachi Automotive Systems, Ltd.</td> </tr> <tr> <td>Street Address:</td> <td>2520, Takaba</td> </tr> <tr> <td>City:</td> <td>Hitachinaka-shi, Ibaraki</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>312-8503</td> </tr> </table>		Name:	Hitachi Automotive Systems, Ltd.	Street Address:	2520, Takaba	City:	Hitachinaka-shi, Ibaraki	State/Country:	JAPAN	Postal Code:	312-8503
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CORRESPONDENCE DATA											
Fax Number: 2026288844 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 2026242500 Email: kdavis@crowell.com Correspondent Name: Crowell & Moring LLP Address Line 1: P.O. Box 14300 Address Line 2: Intellectual Property Department Address Line 4: Washington, DISTRICT OF COLUMBIA 20044-4300											
ATTORNEY DOCKET NUMBER:	106250.64931US										
NAME OF SUBMITTER:	Michael H. Jacobs										
Total Attachments: 1 source=64931usassign_001#page1.tif											

OP \$40.00 13615794

PATENT

ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto:

Hitachi Automotive Systems, Ltd. of 2520 Takaba, Hitachinaka-shi, Ibaraki 312-8503 Japan

(hereinafter ASSIGNEE) all right, title and interest for the United States, its territories and possessions in and to his invention relating to:

ELECTRONIC CONTROL UNIT FOR VEHICLE AND
METHOD OF EXECUTING PROGRAM

as set forth in his United States Patent Application (check one):

- ☐ executed concurrently herewith,
☐ executed on ____,
☒ Application No. 13/615,794 filed September 14, 2012,
☐ PCT International Application, No.: ____, filed ____,

in and to said United States Patent Application including any and all divisions or continuations thereof and in and to any and all Letters Patent of the United States which may issue on any such application or for said invention, including any and all reissues or extensions thereof, to be held and enjoyed by said ASSIGNEE, its successors, legal representatives and assigns to the full end of the term or terms for which any and all such Letters patent may be granted as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made;

Each of the undersigned hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all such Letters patent to said ASSIGNEE, its successors or assigns in accordance herewith;

Each of the undersigned warrants and covenants that he has the full and unencumbered right to sell and assign the interests herein sold and assigned and that he has not executed and will not execute any document or instrument in conflict herewith;

Each of the undersigned further covenants and agrees he will communicate to said ASSIGNEE, its successors, legal representatives or assigns all information known to him relating to said invention or patent application and that he will execute and deliver any papers, make all rightful oaths, testify in any legal proceedings and perform all other lawful acts deemed necessary or desirable by said ASSIGNEE, its successors, legal representatives or assigns to perfect title to said invention, to said application including divisions and continuations thereof and to any and all Letters Patent which may be granted therefor or thereon, including reissues or extensions, in said ASSIGNEE, its successors, or assigns or to assist said ASSIGNEE, its successors, legal representatives or assigns in obtaining, reissuing or enforcing Letters Patent of the United States for said invention;

Each of the undersigned hereby grants the firm of CROWELL & MORING LLP, or any partner thereof, the power to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

Signature: Yusuke ABE August 30, 2012
Inventor one: Yusuke ABE DATE

Signature: Koji YUASA August 30, 2012
Inventor two: Koji YUASA DATE

Signature: Toshihisa ARAI August 30, 2012
Inventor three: Toshihisa ARAI DATE

Note: Prima facie evidence of execution may optionally be obtained by execution of this document before a U.S. Consul or before a local officer authorized to administer oaths whose authority is proved by a certificate from a U.S. Consul.