

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>Hideaki Ohnishi</td> <td>08/22/2012</td> </tr> <tr> <td>Koji Saga</td> <td>08/22/2012</td> </tr> <tr> <td>Yasushi Watanabe</td> <td>08/22/2012</td> </tr> </tbody> </table>		Name	Execution Date	Hideaki Ohnishi	08/22/2012	Koji Saga	08/22/2012	Yasushi Watanabe	08/22/2012
Name	Execution Date								
Hideaki Ohnishi	08/22/2012								
Koji Saga	08/22/2012								
Yasushi Watanabe	08/22/2012								
RECEIVING PARTY DATA									
Name:	HITACHI AUTOMOTIVE SYSTEMS, LTD.								
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City:	Ibaraki								
State/Country:	JAPAN								
Postal Code:	312-8503								
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>13615709</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13615709				
Property Type	Number								
Application Number:	13615709								
CORRESPONDENCE DATA									
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NAME OF SUBMITTER:	Paul J. Skwierawski								
Total Attachments: 1 source=52562X00ASN#page1.tif									

OP \$40.00 13615709

ASSIGNMENT

P12ATS00708

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

name and address of assignee HITACHI AUTOMOTIVE SYSTEMS, LTD. 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

title of invention VARIABLE DISPLACEMENT PUMP

as set forth in his/her United States Patent Application

check one (X) executed concurrently herewith () executed on () Serial No. Filed

in and to said United States Patent Application including any and all divisions or continuations and Convention applications based in whole or in part on said invention or upon said application, including the right to make applications for Letters Patents throughout the world in respect to the invention and to claim priority under the International Convention for the Protection of Industrial Property, and in and to any and all Letters Patent of any country which may issue on any such application or for said invention, including any and all reissues, reexaminations, or extensions, 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 be 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/she has the full and unencumbered right to sell and assign the interests herein sold and assigned and that he/she has not executed and will not execute any document or instrument in conflict herewith;

Each of the undersigned further covenants and agrees that at any time upon request of said ASSIGNEE, its successors, legal representatives or assigns he/she will communicate to said ASSIGNEE, its successors, legal representatives or assigns all information known to him/her relating to said invention or patent application and that he/she 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, reexaminations, 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 ANTONELLI, TERRY, STOUT & KRAUS, LLP 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.

names and signatures of inventors Hideaki Ohnishi date 08/22/2012 Koji Saga date 08/22/2012 Name: Hideaki Ohnishi Name: Koji Saga Yasushi Watanabe date 08/22/2012 Name: Yasushi Watanabe