

## 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>Takahiro Saito</td> <td>09/19/2012</td> </tr> <tr> <td>Nobuaki Kobayashi</td> <td>09/19/2012</td> </tr> <tr> <td>Hiroshi Ohno</td> <td>09/24/2012</td> </tr> <tr> <td>Atsushi Nakai</td> <td>09/27/2012</td> </tr> </tbody> </table>		Name	Execution Date	Takahiro Saito	09/19/2012	Nobuaki Kobayashi	09/19/2012	Hiroshi Ohno	09/24/2012	Atsushi Nakai	09/27/2012
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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, Hitachinaka-shi,</td> </tr> <tr> <td>City:</td> <td>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, Hitachinaka-shi,	City:	Ibaraki	State/Country:	JAPAN	Postal Code:	312-8503
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Application Number:	13660168										
CORRESPONDENCE DATA											
<p>Fax Number: 7033126666  <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 703-312-6600        Email: svannarath@antonelli.com        Correspondent Name: ANTONELLI, TERRY, STOUT &amp; KRAUS, LLP        Address Line 1: 1300 NORTH SEVENTEENTH STREET        Address Line 2: SUITE 1800        Address Line 4: ARLINGTON, VIRGINIA 22209-3873</p>											
ATTORNEY DOCKET NUMBER:	1478.52642X00										
NAME OF SUBMITTER:	Ronald J. Shore										
<p>Total Attachments: 2        source=52642X00ASN#page1.tif        source=52642X00ASN#page2.tif</p>											

OP \$40.00 13660168

**ASSIGNMENT**

P12JEX0074S

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

FUEL INJECTION VALVE

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

T. Saito date 09/19/2012 N. Kobayashi date 09/19/2012  
Name: Takahiro Saito Name: Nobuaki Kobayashi

Hiroshi Ohno date 09/24/2012 A. Nakai date 09/27/2012  
Name: Hiroshi Ohno Name: Atsushi Nakai

**PATENT**

**REEL: 029190 FRAME: 0436**

Yoshio Okamoto date 9/28/2012  
Name: Yoshio Okamoto

\_\_\_\_ date \_\_\_\_  
Name:

\_\_\_\_ date \_\_\_\_  
Name:

\_\_\_\_ date \_\_\_\_  
Name: