

PATENT ASSIGNMENT

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Stylesheet Version v1.1

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>Osamu YOSHIDA</td> <td>03/05/2013</td> </tr> <tr> <td>Tatsuyoshi MARUYAMA</td> <td>03/05/2013</td> </tr> <tr> <td>Kiyotaka SHIRAKUBO</td> <td>03/05/2013</td> </tr> <tr> <td>Kohtaro SHIINO</td> <td>03/05/2013</td> </tr> <tr> <td>Makoto KIMURA</td> <td>03/05/2013</td> </tr> </tbody> </table>		Name	Execution Date	Osamu YOSHIDA	03/05/2013	Tatsuyoshi MARUYAMA	03/05/2013	Kiyotaka SHIRAKUBO	03/05/2013	Kohtaro SHIINO	03/05/2013	Makoto KIMURA	03/05/2013
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<table border="1"> <tr> <td>Name:</td> <td>HITACHI AUTOMOTIVE SYSTEMS STEERING, LTD.</td> </tr> <tr> <td>Street Address:</td> <td>25-10, Miyako, Namegawa-machi</td> </tr> <tr> <td>City:</td> <td>Hiki-gun, Saitama</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>355-0812</td> </tr> </table>		Name:	HITACHI AUTOMOTIVE SYSTEMS STEERING, LTD.	Street Address:	25-10, Miyako, Namegawa-machi	City:	Hiki-gun, Saitama	State/Country:	JAPAN	Postal Code:	355-0812		
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PROPERTY NUMBERS Total: 1													
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CORRESPONDENCE DATA													
<p>Fax Number: 2026725399 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 202-672-5300 Email: rfeimster@foley.com Correspondent Name: PAVAN K. AGARWAL Address Line 1: FOLEY & LARDNER LLP SUITE 500 Address Line 2: 3000 K STREET, N.W. Address Line 4: Washington, DISTRICT OF COLUMBIA 20007-5143</p>													
ATTORNEY DOCKET NUMBER:	023484-0403												
NAME OF SUBMITTER:	Renell G. Feimster for Pavan K. Agarwal												
Total Attachments: 2 source=Assignment#page1.tif source=Assignment#page2.tif													

OP \$40.00 13851568

ASSIGNMENT

P12HAS014US

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 STEERING, LTD.
25-10, Miyako, Namegawa-machi, Hiki-gun,
Saitama 355-0812 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

TORQUE SENSOR AND POWER STEERING SYSTEM USING THE TORQUE
SENSOR

as set forth in his/her United States Patent Application

check one

- (X) executed concurrently herewith
() executed on _____
(X) Serial No. 13/851,568 Filed March 27, 2013

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 **Foley & Lardner 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

Osamu Yoshida date 03/05/2013 Tatsuyoshi Maruyama date 03/05/2013
Name: Osamu Yoshida Name: Tatsuyoshi Maruyama

Kiyotaka Shirakubo date 03/05/2013 Kohtaro Shiino date 03/05/2013
Name: Kiyotaka Shirakubo Name: Kohtaro Shiino

PATENT

REEL: 030109 FRAME: 0512

Makoto Kimura date 03/05/2013

Name: Makoto Kimura

_____ date _____

Name:

_____ date _____

Name:

_____ date _____

Name: