

## 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>Masaki NAKAGAWA</td> <td>07/04/2012</td> </tr> <tr> <td>Koji SHIOTANI</td> <td>07/04/2012</td> </tr> <tr> <td>Tomohiro WAKAZONO</td> <td>07/04/2012</td> </tr> </tbody> </table>		Name	Execution Date	Masaki NAKAGAWA	07/04/2012	Koji SHIOTANI	07/04/2012	Tomohiro WAKAZONO	07/04/2012				
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<table border="1"> <tr> <td>Name:</td> <td>NGK SPARK PLUG CO., LTD</td> </tr> <tr> <td>Street Address:</td> <td>14-18, Takatsuji-cho</td> </tr> <tr> <td>Internal Address:</td> <td>Mizuho-ku</td> </tr> <tr> <td>City:</td> <td>Nagoya-shi, Aichi</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>4678525</td> </tr> </table>		Name:	NGK SPARK PLUG CO., LTD	Street Address:	14-18, Takatsuji-cho	Internal Address:	Mizuho-ku	City:	Nagoya-shi, Aichi	State/Country:	JAPAN	Postal Code:	4678525
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CORRESPONDENCE DATA													
<p>Fax Number: (202)293-7860          Phone: 202-293-7060          Email: jsanchez@sughrue.com, sughrue@sughrue.com  <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: Sughrue Mion, LLC          Address Line 1: 2100 Pennsylvania Ave., N.W.          Address Line 4: Washington, DISTRICT OF COLUMBIA 20037</p>													
ATTORNEY DOCKET NUMBER:	Q140706												
NAME OF SUBMITTER:	Joanna Sanchez, New Apps Specialist												
<p>Total Attachments: 1          source=Q140706_EXECUTED_ASSIGNMENT#page1.tif</p>													

OP \$40.00 13554340

## Assignment

Whereas, We, Masaki NAKAGAWA; Koji SHIOTANI; and Tomohiro WAKAZONO c/o NGK SPARK PLUG CO., LTD., 14-18, Takatsuji-cho, Mizuho-ku, Nagoya, Aichi, Japan, respectively, hereinafter called assignors, have invented certain improvements in GAS SENSOR and executed an application for Letters Patent of the United States of America therefor on \_\_\_\_\_; and

Whereas, NGK SPARK PLUG CO., LTD. of 14-18, Takatsuji-cho, Mizuho-ku, Nagoya-shi, Aichi, 4678525, Japan, (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

We, the above named assignors, hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, including the right to claim priority under 35 U.S.C. §119, and we request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

We hereby authorize and request our attorneys SUGHRUE MION, PLLC of 2100 Pennsylvania Avenue, NW, Washington, DC 20037-3213 to insert here in parentheses (Application number 13/554,340 and Confirmation number 5076, filed July 20, 2012) the application number, confirmation number and filing date of said application when known.

Date: July 4, 2012 Masaki Nakagawa  
s/Masaki NAKAGAWA

Date: July 4, 2012 Koji Shiotani  
s/Koji SHIOTANI

Date: July 4, 2012 Tomohiro Wakazono  
s/Tomohiro WAKAZONO

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)