

## 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>Mamoru YOSHIOKA</td> <td>12/03/2012</td> </tr> <tr> <td>Takashi WATANABE</td> <td>12/06/2012</td> </tr> </tbody> </table>		Name	Execution Date	Mamoru YOSHIOKA	12/03/2012	Takashi WATANABE	12/06/2012
Name	Execution Date						
Mamoru YOSHIOKA	12/03/2012						
Takashi WATANABE	12/06/2012						
RECEIVING PARTY DATA							
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City:	Toyota-shi, Aichi-ken						
State/Country:	JAPAN						
Postal Code:	471-8571						
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>13820673</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13820673		
Property Type	Number						
Application Number:	13820673						
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NAME OF SUBMITTER:	Byron F. Galvez, New Apps Spec						
Total Attachments: 1 source=Q202116_ASSIGNMENT_AS_FILED#page1.tif							

OP \$40.00 13820673

## Assignment

Whereas, I/We, Mamoru YOSHIOKA of Susono-shi, Shizuoka-ken, Japan, Takashi WATANABE of Gotemba-shi, Shizuoka-ken, Japan,

hereinafter called assignor(s), have invented certain improvements in

Electrically Heated Catalyst

and executed an application for Letters Patent of the United States of America therefor on even date hereof; and

Whereas,

TOYOTA JIDOSHA KABUSHIKI KAISHA

1, Toyota-cho, Toyota-shi, Aichi-ken, 471-8571 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,

I/We, the above named assignor(s), 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 the right to claim priority under 35 U.S.C. §119, and I/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 I/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.

I/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 13/820,673 and Confirmation number 4384, filed March 4, 2013) the application number and filing date of said application when known.

Date: December 3, 2012 Mamoru Yoshioka  
s/ Mamoru YOSHIOKA

Date: December 6, 2012 Takashi Watanabe  
s/ Takashi Watanabe

Date: \_\_\_\_\_  
s/

Date: \_\_\_\_\_  
s/

Date: \_\_\_\_\_  
s/

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