

## 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>Yasutaka ISHIBASHI</td> <td>01/09/2012</td> </tr> <tr> <td>Yuuichi HOSAKA</td> <td>01/11/2012</td> </tr> <tr> <td>Takeshi ISHINO</td> <td>01/10/2012</td> </tr> <tr> <td>Issho UEHARA</td> <td>01/11/2012</td> </tr> </tbody> </table>		Name	Execution Date	Yasutaka ISHIBASHI	01/09/2012	Yuuichi HOSAKA	01/11/2012	Takeshi ISHINO	01/10/2012	Issho UEHARA	01/11/2012
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Issho UEHARA	01/11/2012										
RECEIVING PARTY DATA											
Name:	NISSAN MOTOR CO., LTD.										
Street Address:	2, Takara-cho, Kanagawa-ku										
City:	Yokohama-shi, Kanagawa										
State/Country:	JAPAN										
Postal Code:	221-0023										
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>13387985</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13387985						
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Application Number:	13387985										
CORRESPONDENCE DATA											
Fax Number:	(202)672-5399										
Phone:	202-672-5300										
Email:	rfeimster@foley.com										
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>											
Correspondent Name:	Glenn Law										
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										
ATTORNEY DOCKET NUMBER:	040356-0680										
NAME OF SUBMITTER:	Renell G. Feimster for Glenn Law										
Total Attachments: 2 source=Assignment#page1.tif source=Assignment#page2.tif											

OP \$40.00 13387985

U.S. Rights--Sole or Joint

**ASSIGNMENT**

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 assignees*            NISSAN MOTOR CO., LTD.  
2, Takara-cho, Kanagawa-ku, Yokohama-shi, Kanagawa 221-0023 JAPAN

(hereinafter ASSIGNEE) all right, title and interest for the United States, its territories and possessions in and to this invention relating to

*title of invention*    EXHAUST EMISSION CONTROL DEVICE FOR INTERNAL COMBUSTION ENGINE  
AND NOx PURIFICATION CATALYST DETERIORATION DETERMINATION METHOD  
as set forth in this United States Patent Application

*Check one*     executed concurrently herewith  
 executed on \_\_\_\_\_  
 Serial No. PCT/JP2010/062742    Filed on July 22, 2010  
                                      13/387,985                         January 30, 2012

in and to said United States Patent Application including any and all divisions or continuations thereof and in and to any and all Letters Patent of the United States which may issue on any such application or for said invention, including any and all reissues or extensions thereof, 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 been 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 has the full and unencumbered right to sell and assign the interests herein sold and assigned and that he has not executed and will not execute any document or instrument in conflict herewith;

Each of the undersigned further covenants and agrees he will communicate to said ASSIGNEE, its successors, legal representatives or assigns all information known to him relating to said invention or patent application and that he 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 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.

<i><b>NAMES AND SIGNATURES OF INVENTORS</b></i>		
Name: Yasutaka ISHIBASHI	Signature: <i>Yasutaka Ishibashi</i>	Date: 1/9/2012
Name: Yuuichi HOSAKA	Signature: <i>Yuuichi Hosaka</i>	Date: 1/11/2012
Name: Takeshi ISHINO	Signature: <i>Takeshi Ishino</i>	Date: 1/10/2012
Name: Issho UEHARA	Signature: <i>Issho Uehara</i>	Date: 1/11/2012
<i><b>NAMES AND SIGNATURES OF WITNESSES</b></i>		
Name:	Signature:	Date:
Name:	Signature:	Date:

Note: *Prima facie* evidence of execution may optionally be obtained by execution of this document before a U.S. Consul or before a local officer authorized to administer oaths whose authority is proved by a certificate from a U.S. Consul.