

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>Ryo SANO</td> <td>03/12/2012</td> </tr> <tr> <td>Yusuke NIWA</td> <td>03/12/2012</td> </tr> <tr> <td>Tetsuji YAMANAKA</td> <td>03/13/2012</td> </tr> <tr> <td>Hiroki SHIMADA</td> <td>03/20/2012</td> </tr> </tbody> </table>		Name	Execution Date	Ryo SANO	03/12/2012	Yusuke NIWA	03/12/2012	Tetsuji YAMANAKA	03/13/2012	Hiroki SHIMADA	03/20/2012
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<table border="1"> <tr> <td>Name:</td> <td>DENSO CORPORATION</td> </tr> <tr> <td>Street Address:</td> <td>1-1, Showa-cho</td> </tr> <tr> <td>City:</td> <td>Kariya-city, Aichi-pref.</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>448-8661</td> </tr> </table>		Name:	DENSO CORPORATION	Street Address:	1-1, Showa-cho	City:	Kariya-city, Aichi-pref.	State/Country:	JAPAN	Postal Code:	448-8661
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PROPERTY NUMBERS Total: 1											
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Application Number:	13430777										
CORRESPONDENCE DATA											
Fax Number:	(703)816-4100										
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ATTORNEY DOCKET NUMBER:	MNL-2018-2874										
NAME OF SUBMITTER:	Michelle N. Lester										
Total Attachments: 2 source=ASSGN#page1.tif source=ASSGN#page2.tif											

OP \$40.00 13430777

ASSIGNMENT OF U.S. PATENT APPLICATION

(Inventors) Ryo Sano
Yusuke Niwa
Tetsuji Yamanaka
Hiroki Shimada

In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to

(Assignee) DENSO CORPORATION a corporation of Japan

(Address) 1-1, Showa-cho, Kariya-city, Aichi-pref., 448-8661 Japan

(hereinafter designated as the Assignee) the undersigned's entire right, title and interest for the United States, its territories, dependencies and possessions in the invention, and all applications for patent and any Letters Patent which may be granted therefore, known as

(Title) EXHAUST GAS RECIRCULATION VALVE

for which the undersigned has (have) executed on even date herewith an application for patent in the United States of America or, if not on even date, then has executed on _____ or has already filed U.S. application Serial No. _____, on _____.

The undersigned acknowledges an obligation of assignment of this invention to said assignee at the time the invention was made.

The undersigned agree(s) to execute all papers and documents necessary in connection with the application or any interference which may be declared and any continuing or divisional applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient and further to perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the firm of NIXON & VANDERHYE P.C. the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document. It is understood and agreed that ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned signature(s).

Date	<u>March 12, 2012</u>	Signature of inventor	<u>Ryo Sano</u> Ryo Sano
Date	<u>March 12, 2012</u>	Signature of inventor	<u>Yusuke Niwa</u> Yusuke Niwa
Date	<u>March 13, 2012</u>	Signature of inventor	<u>Tetsuji Yamanaka</u> Tetsuji Yamanaka
Date	<u>March 20, 2012</u>	Signature of inventor	<u>Hiroki Shimada</u> Hiroki Shimada

Date March 12, 2012 Witnessed by: Satoshi Ishigaki

Date March 13, 2012 Witnessed by: Yoshi Suzuki

Date March 13, 2012 Witnessed by: Yasutoshi Kameda

Date ~~March 13, 2012~~ Witnessed by: ~~Hiroyuki Shimada~~

~~March 20, 2012~~ H.S. March 20, 2012 H.S. March 20, 2012

H.S. March 20, 2012
March 20, 2012

Kezushi Sasaki