

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>Atsushi MURAI</td> <td>05/22/2012</td> </tr> <tr> <td>Hiroyuki YAMAMOTO</td> <td>05/23/2012</td> </tr> </tbody> </table>		Name	Execution Date	Atsushi MURAI	05/22/2012	Hiroyuki YAMAMOTO	05/23/2012
Name	Execution Date						
Atsushi MURAI	05/22/2012						
Hiroyuki YAMAMOTO	05/23/2012						
RECEIVING PARTY DATA							
Name:	DENSO CORPORATION						
Street Address:	1-1 Showa-cho						
City:	Kariya-city, Aichi-pref.						
State/Country:	JAPAN						
Postal Code:	448-8661						
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>13480934</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13480934		
Property Type	Number						
Application Number:	13480934						
CORRESPONDENCE DATA							
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ATTORNEY DOCKET NUMBER:	2635-1175						
NAME OF SUBMITTER:	Michelle N. Lester						
Total Attachments: 2 source=2635_1175_Assignment#page1.tif source=2635_1175_Assignment#page2.tif							

OP \$40.00 13480934

ASSIGNMENT OF PATENT APPLICATION

(Inventors) 1) Atsushi MURAI
 2) Hiroyuki YAMAMOTO
 3)
 4)
 5)
 6)

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 having a place of business at
 (Address) 1-1 Showa-cho, Kariya-city, Aichi-pref. 448-8661 Japan

(Other Countries) (hereinafter designated as the Assignee) the undersigned's entire right, title and interest for the United States, its territories, dependencies and possessions, and for the country of
 (Title) in the invention, and all application for patent and any Letters Patent which may be granted therefore, known as
 GAS SENSOR ELEMENT AND ITS MANUFACTURING METHOD, AND GAS SENSOR EMPLOYING THE GAS SENSOR ELEMENT

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 May 22 and 23, 2012 or has already filed in U.S. appln. Serial No. 13/480,934, filed on May 25, 2012
 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 May 22, 2012 Signature of inventor Atsushi Murai
Atsushi Murai

Date May 23, 2012 Signature of inventor Hiroyuki Yamamoto
Hiroyuki Yamamoto

Date _____ Signature of inventor _____

Date _____ Signature of inventor _____

Date _____ Signature of inventor _____

Date _____ Signature of inventor _____

Witnessed by: Hirokazu Yamada Date May 22, 2012

Witnessed by: Yoshiyasu Ando Date May 23, 2012

Witnessed by: _____ Date _____

Witnessed by: _____ Date _____