



02-23-2010

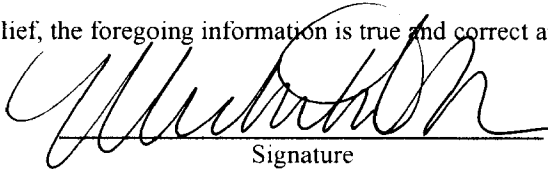
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Our Ref.: MNL-2635-835

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To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.

<p>1. Name of conveying party(ies):</p> <p>1 Hiroshi MATSUOKA</p> <p>2 Tetsuya KATO</p> <p>3 Makoto NAKAE</p> <p>4 Syuuichi NAKANO</p> <p>Additional name/s of conveying party/ies attached? <input type="checkbox"/></p> <p>3. Nature of conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger</p> <p><input type="checkbox"/> Security Assignment <input type="checkbox"/> Change of Name</p> <p><input type="checkbox"/> Other</p> <p>Execution Date: January 12, 2010, January 12, 2010, January 14, 2010 and January 14, 2010</p>		<p>2. Name and address of receiving party(ies):</p> <p>1) Name: NIPPON SOKEN Street Address: 14 Iwaya, Shimohasumi-cho City: Kariya-city, Aichi-pref. State/Country: Japan Zip: 445-0012</p> <p>2) Name: DENSO CORPORATION Street Address: 1-1, Showa-cho City: Kariya-city, Aichi-pref. State/Country: Japan Zip: 448-8661</p> <p>Additional name/s & address/es attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	
<p>4. Application number(s) or patent number(s): <input type="checkbox"/> This assignment is being filed together with a new application.</p> <p>A. Patent Application No(s). (1) 12/644,675 (2) (3)</p> <p>B. Patent No(s). (1) (2) (3)</p> <p>Additional numbers attached <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>			
<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: Michelle N. Lester</p> <p>Internal Address:</p> <p>Street Address: Nixon & Vanderhye P.C. 901 North Glebe Road 11th Floor</p> <p>City: Arlington State: VA Zip: 22203</p>		<p>6. Total number of applications & patents involved: 1</p> <p>7. Total fee (37 CFR 3.41) \$ 40.00</p> <p><input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to be charged to deposit account #14-1140</p> <p>8. The Commissioner is hereby authorized to charge any deficiency in the fee(s) filed, or asserted to be filed, or which should have been filed herewith (or with any paper thereafter filed in this application by this firm) to our Account No. 14-1140.</p>	
<p>DO NOT USE THIS SPACE</p>			
<p>9. Statements and signature.</p> <p>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</p> <p>Michelle N. Lester Name of Person Signing Reg. No. 32,331</p> <p> Signature</p> <p>February 18, 2010 Date</p> <p>Total number of pages including original cover sheet, attachments, and document: [3]</p>			

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, VA 22313-1450

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PATENT

REEL: 023975 FRAME: 0604

ASSIGNMENT OF PATENT APPLICATION

(Inventors)

1) Hiroshi MATSUOKA
2) Tetsuya KATO
3) Makoto NAKAE
4) Shuuichi NAKANO

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)

NIPPON SOKEN, INC., a corporation of Japan having a place of business at 14 Iwaya, Shimohasumi-cho, Nishio-city, Aichi-pref. 445-0012 Japan

(Address)

(Assignee)

DENSO CORPORATION, a corporation of Japan having a place of business at 1-1 Showa-cho, Kariya-city, Aichi-pref. 448-8661 Japan

(Address)

(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

(Other

in the invention, and all application for patent and any Letters Patent which may be granted therefore, known as

Countries)

(Title)

GAS SENSOR ELEMENT AND GAS SENSOR EQUIPPED WITH THE SAME

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 January 12 and 14, 2010 or has already filed in U.S. appln. Serial No. 12/644,675, filed on December 22, 2009.

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).

January 12, 2010

Signature of inventor

Hiroshi Matsuoka

PATENT

REEL: 023975 FRAME: 0605

ASSIGNMENT OF PATENT APPLICATION

(Inventors)

1) Hiroshi MATSUOKA

2) Tetsuya KATO

3) Makoto NAKAE

4) Shuuichi NAKANO

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(Other

Countries)

in the invention, and all application for patent and any Letters Patent which may be granted therefore, known as

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

Date January 12, 2010 Signature of inventor

Hiroshi Matsuoka
Hiroshi Matsuoka

Date January 12, 2010 Signature of inventor

Tetsuya Kato
Tetsuya Kato

Date January 14, 2010 Signature of inventor

Makoto Nakae
Makoto Nakae

Date January 14, 2010 Signature of inventor

Shuichi Nakano
Shuichi Nakano

Date _____ Signature of inventor

S.K. January 14, 2010
Shuichi Nakano

Date _____ Signature of inventor

Witnessed by: Tsutomu Hirano

Date January 12, 2010

Witnessed by: Tsutomu Hirano

Date January 12, 2010

Witnessed by: Takayuki Ido

Date January 14, 2010

Witnessed by: Kingi Hoshino

~~with January 15,~~
Date ~~January 15, 2010~~
K.H. January 14, 2010
January 14, 2010