

07-17-2006

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Our Ref.: 2018-1417

7.10.06

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): Tsutomu HAYASHI Hajime NOMURA Yoshitaka UEMATSU Toshiaki IWASHITA Kensuke MIZUI</p> <p>Additional name/s of conveying party/ies attached? <input type="checkbox"/></p> <p>3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Assignment <input type="checkbox"/> Change of Name <input type="checkbox"/> Other</p> <p>Execution Date: <u>June 26, 2006</u></p>	<p>2. Name and address of receiving party(ies):</p> <p>(1) Name: DENSO CORPORATION Street Address: 1-1, Showa-cho City: Kariya-city, Aichi-pref. State/Country: Japan Zip: 448-8661</p> <p>(2) Name: Street Address: City: State/Country: Zip:</p> <p>Additional name/s & address/es attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
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<p>4. Application number(s) or patent number(s): <input checked="" type="checkbox"/> This assignment is being filed together with a new application.</p> <p>A. Patent Application No(s). (1) (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>
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<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: <u>Larry S. Nixon</u></p> <p>Internal Address: _____</p> <p>Street Address: <u>Nixon & Vanderhye P.C.</u> <u>901 North Glebe Road</u> <u>11th Floor</u></p> <p>City: <u>Arlington</u> State: <u>VA</u> Zip: <u>22203</u></p>	<p>6. Total number of applications & patents involved: <u>1</u></p> <p>7. Total fee (37 CFR 3.41) \$ <u>40.00</u> <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 <u>deficiency</u> 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>
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9. Statements and signature.
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.

Larry S. Nixon Larry S. Nixon July 10, 2006
Name of Person Signing Signature Date
Reg. No. 25,640

Total number of pages including **original** cover sheet, attachments, and document: [3]

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
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PATENT
REEL: 018052 FRAME: 0379

ASSIGNMENT OF U.S. PATENT APPLICATION

(Inventors) Tsutomu Hayashi
Hajime Nomura
Yoshitaka Uematsu
Toshiaki Iwashita
Kensuke Mizui

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

(Title) ELEMENT CRACK DETECTING APPARATUS AND METHOD FOR OXYGEN SENSOR

(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
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 June 26, 2006 Signature of inventor Tsutomu Hayashi
Tsutomu Hayashi

Date June 26, 2006 Signature of inventor Hajime Nomura
Hajime Nomura

Date June 26, 2006 Signature of inventor Yoshitaka Uematsu
Yoshitaka Uematsu

Date June 26, 2006 Signature of inventor

Toshiaki Iwashita
Toshiaki Iwashita

Date June 26, 2006 Signature of inventor

Kensuke Mizui
Kensuke Mizui

Date June 26, 2006

Witnessed by: Takeshi Suganuma

Date June 26, 2006

Witnessed by: Minoru Hozuka

Date June 26, 2006

Witnessed by: Akihira Yanagisawa

Date June 26, 2006

Witnessed by: Tae Ichikawa

Date June 26, 2006

Witnessed by: Junko Suzuki