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Our Ref.: 2018-1485

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 Yuichi TAKEMURA 5</p> <p>2 Kenji KASASHIMA 6</p> <p>3 Rihito KANEKO 7</p> <p>4 8</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: August 9, 2006, September 4, 2006 and September 4, 2006</p>	<p>2. Name and address of receiving party(ies):</p> <p>Name: DENSO CORPORATION</p> <p>Internal Address: _____</p> <p>Street Address: 1-1, Showa-cho</p> <p>City: Kariya-city, Aichi-pref.</p> <p>State/Country: Japan</p> <p>Zip: 448-8661</p> <p>Additional name/s & address/es attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
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<p>4. Application number(s) or patent number(s): <input checked="" type="checkbox"/> This application is being filed together with a new application.</p> <p>A. Patent Application No(s).</p> <p>(1) To Be Assigned</p> <p>(2)</p> <p>(3)</p> <p>Additional numbers attached <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>B. Patent No(s).</p> <p>(1)</p> <p>(2)</p> <p>(3)</p>
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<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: Larry S. Nixon</p> <p>Internal Address: _____</p> <p>Street Address: Nixon & Vanderhye P.C.</p> <p>901 North Glebe Road</p> <p>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</p> <p><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>
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<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>Larry S. Nixon</p> <p>Name of Person Signing</p> <p>Reg. No. 25,640</p>	<p><i>Larry S. Nixon</i></p> <p>Signature</p>	<p>September 15, 2006</p> <p>Date</p>
<p>Total number of pages including original cover sheet, attachments, and document: [4]</p>		

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PATENTS ONLY

Our Ref: 2018-1485

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

1. Name of conveying party(ies):

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2. Name: TOYOTA JIDOSHA KABUSHIKI KAISHA

Street Address: 1, Toyota-cho
City: Toyota-city, Aichi-pref.
State/Country: Japan
Zip: 471-8571

4. Application number(s) or patent number(s):

A. Patent Application No(s).

(4)
(5)
(6)
(7)
(8)
(9)

B. Patent No(s).

(4)
(5)
(6)
(7)
(8)
(9)

ASSIGNMENT OF U.S. PATENT APPLICATION

(Inventors) Yuichi Takemura
Kenji Kasashima
Rihito Kaneko

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
 (Assignee) TOYOTA JIDOSHA KABUSHIKI KAISHA a corporation of Japan
 (Address) 1, Toyota-cho, Toyota-city, Aichi-pref., 471-8571 Japan

(Title) (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 KNOCK DETERMINATION APPARATUS AND METHOD FOR ENGINES
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 August 9, 2006 Signature of inventor

Yuichi Takemura
Yuichi Takemura

Date September 4, 2006 Signature of inventor

Kenji Kasashima
Kenji Kasashima

Date September 4, 2006 Signature of inventor

Rihito Kaneko
Rihito Kaneko

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Date	<u>August, 9, 2006</u>	Witnessed by:	<u>Toru Iameshima</u>
Date	<u>September, ⁴ 5, 2006</u> ^{06.9.4 KS}	Witnessed by:	<u>Kenji Senda</u>
Date	<u>September, 4, 2006</u>	Witnessed by:	<u>Yasuhiko Yamashita</u>

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