

01-05-2006



SHEET

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To the Director of the U.S. Patent and Trademark Office, attached documents or the new address(es) below.

1. Name of conveying party(ies):

Rihito KANEKO  
Kenji KASASHIMA  
Masatomo YOSHIHARA  
Kenji SENDA  
Kouzi OHARA  
Kiyoshi IWADE  
Shuhei OE  
Yuichi TAKEMURA  
Shigeru KAMIO

Additional name of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

Execution Date(s) **December 19, 2005, respectively**

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other \_\_\_\_\_

2. Name and address of receiving party(ies)

**TOYOTA JIDOSHA KABUSHIKI KAISHA**  
1, Toyota-cho, Toyota-shi, Aichi-ken  
471-8571 JAPAN

and

**DENSO CORPORATION.**

1-1, Showa-cho, Kariya-shi  
Aichi-ken, 448-8661 JAPAN

and

**NIPPON SOKEN, INC.**

14, Iwaya, Shimohasumi-co  
Nishio-shi, Aichi-ken 445-0012 JAPAN

Additional Name(s) & address(es) attached? ☐ Yes ☒ No

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

☒ This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning this document should be mailed:

Name: William E. Curry

Internal Address: \_\_\_\_\_

Street Address: 1500 K Street, NW, #700

City: Washington

State: DC Zip: 20005

Phone Number : 202-220-4323

Fax Number: 202-220-4201

Email Address: wcurry@kenyon.com

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- ☐ Authorized to be charged by credit card  
☒ Authorized to be charged to deposit account  
☐ Enclosed  
☐ None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_

b. Deposit Account Number 11-0600

Authorized User Name KENYON & KENYON

9. Signature :

William E. Curry 43,572  
Signature

December 22, 2005

Date

William E. Curry

Total number of pages including cover sheet, attachments, and documents

Name of Person Signing

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, V.A. 22313-1450

PATENT  
REEL: 017413 FRAME: 0590

113002 U.S. PTO  
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01/04/2006

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## ASSIGNMENT

WHEREAS, we, Rihito KANEKO, Kenji KASASHIMA, Masatomo YOSHIHARA, Kenji SENDA, Kouzi OHARA, Kiyoshi IWADE, Shuhei OE, Yuichi TAKEMURA, and Shigeru KAMIO, citizens of Japan, residing at Nishikamo-gun, Aichi-ken, Japan; Nishikamo-gun, Aichi-ken, Japan; Toyota-shi, Aichi-ken, Japan; Okazaki-shi, Aichi-ken, Japan; Nukata-gun, Aichi-ken, Japan; Okazaki-shi, Aichi-ken, Japan; Kariya-shi, Aichi-ken, Japan; Anjo-shi, Aichi-ken, Japan; and Nagoya-shi, Aichi-ken, Japan (hereinafter referred to as "the Assignor"); have made new and useful improvements in an invention entitled Internal Combustion Engine Knock Determination Device, for which we are about to make application for Letters Patent in the United States, said application having been executed on even date hereof; and

WHEREAS, TOYOTA JIDOSHA KABUSHIKI KAISHA, DENSO CORPORATION and NIPPON SOKEN, INC., a corporation organized and existing under and by virtue of the laws of Japan, having its principle place of business at 1, Toyota-cho, Toyota-shi, Aichi-ken, 471-8571 Japan; 1-1, Showa-cho, Kariya-shi, Aichi-ken 448-8661 Japan; and 14, Iwaya, Shimohasumi-cho, Nishio-shi, Aichi-ken 445-0012 Japan, who, together with its successors and assigns, (hereinafter called "Assignee,") is desirous of acquiring the title, rights, benefits, and privileges hereinafter recited.

NOW, THEREFORE, in consideration of the equivalent of One U.S. Dollar (U.S. \$1.00) and other valuable consideration furnished by Assignee to us, receipt and sufficiency of which we hereby acknowledge, we hereby, without reservations:

1. Assign, transfer, and convey to Assignee the Entire right, title, and interest in and to said inventions and discoveries, said application for Letters Patent of the United States of America, including all divisional, renewal, substitute, and continuation applications based in whole or in part upon said inventions or discoveries, or upon said applications, and any and all Letters Patent, reissues, and extensions of letters Patent granted for said inventions and discoveries or upon said applications.

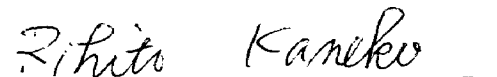
2. Authorize and request the Assistant Commissioner for Patents of the United States of America to issue or transfer all said Letters Patent to Assignee, as

assignee of the entire right, title, and interest therein or otherwise as Assignee may direct.

3. Warrant that we have not knowingly conveyed to others any right in said inventions, discoveries, applications, or patents or any license to use the same or to make, use, or sell anything embodying or utilizing any of said inventions or discoveries; and that we have good right to assign the same to Assignee without encumbrance.

4. Bind our heirs, legal representatives, and assigns, as well as ourselves, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to us or them, all acts reasonably serving to assure that the said inventions and discoveries, the said patent applications, and the said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by us, our heirs, legal representatives, and assigns if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to us relating to said inventions and discoveries or the history thereof; and to furnish Assignee with any and all documents, photographs, models, samples, and other physical exhibits in our control or in the control of our heirs, legal representatives, or assigns which may be useful for establishing the facts of our conceptions, disclosures, and reduction to practice of said inventions and discoveries.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal  
this 19th day of December, 2005.

  
Rihito KANEKO

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal  
this 19th day of December, 2005.

  
Kenji KASASHIMA

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal  
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Masatomo Yoshihara  
Masatomo YOSHIHARA

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Kenji Senda  
Kenji SENDA

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this \_\_\_\_\_ day of \_\_\_\_\_, 2005.

\_\_\_\_\_  
Kouzi OHARA

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this \_\_\_\_\_ day of \_\_\_\_\_, 2005.

\_\_\_\_\_  
Kiyoshi IWADA

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this \_\_\_\_\_ day of \_\_\_\_\_, 2005.

\_\_\_\_\_  
Shuhei OE

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this \_\_\_\_\_ day of \_\_\_\_\_, 2005.

\_\_\_\_\_  
Masatomo YOSHIHARA

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this \_\_\_\_\_ day of \_\_\_\_\_, 2005.

\_\_\_\_\_  
Kenji SENDA

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Kouzi Ohara  
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Kiyoshi Iwade  
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this 19th day of December, 2005.

Shuhei Oe  
Shuhei OE

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal  
this 19th day of December, 2005.

*Yuichi Takemura*

Yuichi TAKEMURA

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal  
this 19th day of December, 2005.

*Shigeru Kamio*

Shigeru KAMIO