

11/793432
IAP8 Rec'd PCT/PTO 2 1 JUN 2007

Form PTO-1595 (Rev. 03/05)
OMB No. 0651-0027 (exp. 6/30/2005)

06-29-2007

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To the Director of the U.S. Patent and Trademark Office, Attention: 103421447 Documents or the new address(es) below.

1. Name of conveying party(ies)

Minoru ISHIDA
Kunihiko JINNO
Keita HONDA

2. Name and address of receiving party(ies)

Name: TOYOTA JIDOSHA KABUSHIKI KAISHA

Internal Address: _____

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

3. Nature of conveyance/Execution Date(s):

Execution Date(s) 16 May 2007

- Assignment Merger
- Security Agreement Change of Name
- Joint Research Agreement
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other _____

Street Address: 1, Toyota-cho

Toyota-shi, Aichi-ken, JAPAN 471-8571

City: _____

State: _____

Country: _____ Zip: _____

Additional name(s) & address(es) attached? Yes No

4. Application or patent number(s):

This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

06/25/2007 LLANDGBA 00000045 110600 11793432

04 FC:8021 (40.00 DA)

11/793432

Additional numbers attached? Yes No

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

Name: Wesley W. Jones

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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 _____
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Authorized User Name KENYON & KENYON LLP

9. Signature:

Shawn W. O'Dowd

Signature

21 June 2007

Date

Shawn W. O'Dowd
Name of Person Signing

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

4

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PATENT
REEL: 019512 FRAME: 0198

ASSIGNMENT

WHEREAS, we, Minoru ISHIDA, Kunihiko JINNO and Keita HONDA, citizens of, Japan, residing at Mishima-shi, Shizuoka-ken, Japan, Toyota-shi, Aichi-ken Japan and Okazaki-shi, Aichi-ken, Japan (hereinafter referred to as "the Assignor"); have made new and useful improvements in an invention entitled VEHICLE AND METHOD FOR CONTROLLING SAME, 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 and DENSO CORPORATION, corporations organized and existing under and by virtue of the laws of Japan, having their principle places of business at 1, Toyota-cho, Toyota-shi, Aichi-ken, 471-8571 Japan and 1-1, SHOWA-CHO, KARIYA-CITY AICHI-PREF 448-8661 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 16th day of May, 2007.

Minoru ISHIDA
(Minoru ISHIDA)

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 16th day of May, 2007.

Kunihiko JINNO
(Kunihiko JINNO)

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 16th day of May, 2007.

Keita HONDA
(Keita HONDA)

WITNESSED BY:

M. Ishikawa
Masahide ISHIKAWA

WITNESSED BY:

M. Kurata
Masafumi KURATA