



02-06-2007



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Attorney Docket No.: 102912.58481US

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

1. Name of conveying party(ies)/Execution Date(s):

(1) Yoshinari KAWAHARA  
(2) Tadahiko NOGAMI  
(3) Takaomi NISHIGAITO  
(4) Atsushi YOKOYAMA

Execution Date(s) (1) 12/22/2006, (2) 12/07/2006,  
(3) 12/17/2006 and (4) 12/07/2006

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

3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
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☐ Other \_\_\_\_

2. Name and address of receiving party(ies)

Name: Hitachi, Ltd.

Street Address: 6-6, Marunouchi 1-chome  
Chiyoda-ku, Tokyo  
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)

11/639,324

B. Patent Registration No.(s)

Additional number(s) attached? ☐ Yes ☒ No

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

Name: Crowell & Moring LLP

Street Address: Intellectual Property Group  
PO Box 14300  
Washington, DC 20044-4300

Phone Number: 202-624-2500

Fax Number: 202-628-8844

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 1007

Expiration Date 10/10

b. Deposit Account Number 05-1323

Authorized User Name 23911

9. Signature:

Signature

February 1, 2007

Date

Jeffrey D. Sanok, Reg. No. 32,169

Name of Person Signing

Total number of pages including cover  
sheet, attachments, and documents: 3

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:  
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**ASSIGNMENT**

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto:

**Hitachi, Ltd.**  
**6-6, Marunouchi 1-chome, Chiyoda-ku, Tokyo, Japan**

(hereinafter ASSIGNEE) all right, title and interest for the United States, its territories and possessions in and to his invention relating to:

**Brake Control Apparatus for Vehicle**

as set forth in his United States Patent Application (check one):

- ☐ executed concurrently herewith,  
☐ executed on \_\_\_\_\_,  
☐ Serial No. \_\_\_\_\_, filed \_\_\_\_\_,  
☐ PCT International Application, No.: \_\_, filed \_\_,

in and to said United States Patent Application including any and all divisions or continuations thereof and in and to any and all Letters Patent of the United States which may issue on any such application or for said invention, including any and all reissues or extensions thereof, to be held and enjoyed by said ASSIGNEE, its successors, legal representatives and assigns to the full end of the term or terms for which any and all such Letters patent may be granted as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made;

Each of the undersigned hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all such Letters patent to said ASSIGNEE, its successors or assigns in accordance herewith;

Each of the undersigned warrants and covenants that he has the full and unencumbered right to sell and assign the interests herein sold and assigned and that he has not executed and will not execute any document or instrument in conflict herewith;

Each of the undersigned further covenants and agrees he will communicate to said ASSIGNEE, its successors, legal representatives or assigns all information known to him relating to said invention or patent application and that he will execute and deliver any papers, make all rightful oaths, testify in any legal proceedings and perform all other lawful acts deemed necessary or desirable by said ASSIGNEE, its successors, legal representatives or assigns to perfect title to said invention, to said application including divisions and continuations thereof and to any and all Letters Patent which may be granted therefor or thereon, including reissues or extensions, in said ASSIGNEE, its successors, or assigns or to assist said ASSIGNEE, its successors, legal representatives or assigns in obtaining, reissuing or enforcing Letters Patent of the United States for said invention;

Each of the undersigned hereby grants the firm of **CROWELL & MORING, L.L.P.**, or any partner thereof, the power to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

**Inventor one:**  
Citizen of: Japan

**Yoshinari KAWAHARA**

\_\_\_\_\_  
(Signature of witness (optional))

*Yoshinari Kawahara*  
\_\_\_\_\_  
(Signature of 1st inventor)

*12/22/2006*  
\_\_\_\_\_  
(Date)

**Inventor two:**  
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**Tadahiko NOGAMI**

*Tadahiko Nogami*

*12/7/2006*

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(Signature of 2nd inventor)

(Date)

**Inventor three:**  
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**Takaomi NISHIGAITO**

*Takaomi Nishigaito*

*12/7/2006*

(Signature of witness (optional))

(Signature of 3rd inventor)

(Date)

**Inventor four:**  
Citizen of: Japan

**Atsushi YOKOYAMA**

*Atsushi Yokoyama*

*12/7/2006*

(Signature of witness (optional))

(Signature of 4th inventor)

(Date)

Note: Prima facie evidence of execution may optionally be obtained by execution of this document before a U.S. Consul or before a local officer authorized to administer oaths whose authority is proved by a certificate from a U.S. Consul.