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PATENT:



103593899

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

1. Name of conveying party(ies):

Shigeru Hayashi (02/19/2010) and Masatoshi Tazaki (02/19/2010)

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

2. Name and address of receiving party(ies)

Name: Hitachi Automotive Systems, Ltd.

Internal Address: _____

Street Address: _____

6-3, Fujimi 1-chome
Kawasaki-ku, Kawasaki

City: Kanagawa

State: _____

Country: JAPAN Zip: _____

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

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

Execution Date(s): in parentheses after inventor name _____

Assignment Merger Change of Name

Security Agreement Joint Research Agreement

Government Interest Assignment

Executive Order 9424, Confirmatory License

Other _____

4. Application or patent number(s):

A. Patent Application No.(s)

12/656,164

This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: RADER, FISHMAN & GRAUER PLLC

Internal Address: Atty. Dkt.: HBS-0018

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Email Address: _____

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 to deposit account

Enclosed

None required (government interest not affecting title)

8. Payment Information

Deposit Account Number 18-0013

Authorized User Name Carl Schaukowitch

9. Signature:

Signature

March 31, 2010

Date

Carl Schaukowitch - 29,211

Name of Person Signing

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

2

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ASSIGNMENT

(1-8) Insert Name(s) of Inventor(s) (1) Shigeru HAYASHI (5) (2) Masatoshi TAZAKI (6) (3) (7) and (4) (8)

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

(9) Insert Name of Assignee (9) Hitachi Automotive Systems, Ltd. (10) Insert Address of Assignee (10) 6-3, Fujimi 1-chome, Kawasaki-ku, Kawasaki, Kanagawa, Japan

(hereinafter designated as the Assignee) the entire right, title and interest for the United States of America as defined in 35 U.S.C. § 100, in the invention, and in all applications for patent including any and all divisions, continuations, substitutes, and reissues, and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as

(11) Insert Identification, such as Title, Case Number or Foreign Application Number (11) DISK BRAKE (Case No.)

For which the undersigned has (have) executed an application for patent in the United States of America

(12) Insert Date of Signing of Application (12) on February 19, 2010

(13) Alternative identification for filed applications (13) U.S. application Serial Number filed

- 1) The undersigned agree(s) to execute all papers necessary in connection with the application and any continuing, divisional or reissue applications for the invention, and any patent(s) issuing thereon, and also to execute separate assignments in connection with such applications and patents as the Assignee may deem necessary.
2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation or division thereof, or any patent or reissue application based thereon, and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.
3) The undersigned agree(s) to execute all papers and documents and 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.
4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination a grant of a valid United States Patent to the Assignee.
5) The undersigned hereby authorize(s) and request(s) the Director of Patents to issue any and all Letters Patents of the United States resulting from said application or any divisional, continuing or reissue applications 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 agreements in conflict herewith.
6) The undersigned hereby grant(s) the firm of Rader, Fishman & Grauer PLLC 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 and Trademark Office for recordation of this document.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date February 19, 2010 Name of Inventor Shigeru Hayashi (SEAL)
Date February 19, 2010 Name of Inventor Masatoshi TAZAKI (SEAL)
Date Name of Inventor (SEAL)
Date Name of Inventor (SEAL)
Date Name of Inventor (SEAL)
Date Name of Inventor (SEAL)

This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A.

(b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:

Date February 19, 2010 Witness Shinichi Nakayama
Date February 19, 2010 Witness Shinji Sugita