

FORM PTO-11P5 (modified)

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To the Director of the United States Patent and Trademark Office: Please record the attached original documents or copies thereof.

1. Name of conveying party(ies):

Tomoya TSUKADA  
Seiji SUGA  
Hideaki NAKAMURA

2. Name and address of receiving party(ies):

HITACHI, LTD.  
6-6, Marunouchi 1-chome, Chiyoda-ku  
Tokyo, 100-8280 Japan

Additional conveying party(ies)

NO

3. Nature of conveyance:

ASSIGNMENT

Execution Date:

10/23/2006 (All Assignors)

Additional name(s) &amp; address(es) attached?

NO

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

If this is being filed together with a new application, the execution date of the application is:

10/23/2006

A. Patent Application Number(s):

B. Patent Number(s):

Additional numbers attached? NO

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

Alan I. Cantor  
FOLEY & LARDNER LLP  
Washington Harbour  
3000 K Street NW, Suite 500  
Washington, D.C. 20007-5143

6. Total number of applications/patents involved:

1

7. Total fee (37 C.F.R. § 3.41):

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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. The Commissioner is hereby authorized to charge any additional recordation fees which may be required in this matter to the above-identified deposit account.

Alan I. Cantor

Name of person signing

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## A S S I G N M E N T

P06ATS019US

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

name and  
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assignee

HITACHI, LTD.  
6-6, Marunouchi 1-chome, Chiyoda-ku,  
Tokyo 100-8280 Japan

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

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as set forth in his/her United States Patent Application

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( ) executed on \_\_\_\_\_  
( ) Serial No. \_\_\_\_\_ Filed \_\_\_\_\_

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

Each of the undersigned further covenants and agrees that at any time upon request of said ASSIGNEE, its successors, legal representatives or assigns he/she will communicate to said ASSIGNEE, its successors, legal representatives or assigns all information known to him/her relating to said invention or patent application and that he/she 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, reexaminations, 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 **Foley & Lardner LLP** 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.

names and  
signatures  
of  
inventors

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PATENT

RECORDED: 11/01/2006

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