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U.S. DEPARTMENT OF COMMERCE  
U.S. Patent and Trademark Office

Attorney Docket No. 501.1063D00

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

## 1. Name of conveying party(ies):

Toshiyuki MORIYA  
Minoru IKEDA  
Hidenori SHINOHARA  
Yoshihiro IWAMA

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

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

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

## 3. Nature of conveyance:

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

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

Execution Date: ~~June 16, 2005; June 16, 2005 June 21,~~  
~~2005 and June 17, 2005.~~

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

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

A. Patent Application No.(s)

29/232,804, filed 6/24/2005

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: ANTONELLI, TERRY, STOUT &amp; KRAUS, LLP

Internal Address:

1300 NORTH 17<sup>TH</sup> STREET - SUITE 1800

City: ARLINGTON State: VA Zip 22209

6. Total number of applications and patents involved 1

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

☒ Enclosed☒ Authorized to be charged to deposit account

## 8. Deposit account number:

01-2135

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## 9. Statement and signature.

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.

Melvin Kraus, Reg#22,466

Name of Person Signing

Signature

07/27/2005

Date

Total number of pages including cover sheet, attachments, and document: 2

Mail documents to be recorded with required cover sheet information to:  
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07/28/2005 SZEWDIE1 00000089 29232804

02 FC:8021

40.00 DP

PATENT  
REEL: 016817 FRAME: 0440

**ASSIGNMENT**  
( 譲 渡 証 )

As a below named inventor, I hereby declare that:

IN CONSIDERATION of the sum of One Dollar (\$1.00) or the equivalent thereof, and other good and valuable consideration paid to me citizen of Japan by Hitachi, Ltd., a corporation organized under the laws of Japan, located at 6-6, Marunouchi 1-chome, Chiyoda-ku, Tokyo, Japan, receipt of which is hereby acknowledged I do hereby sell and assign to said Hitachi, Ltd., its successors and assigns, all my right, title and interest, in and for the United States of America, in and to

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invented by me (if only one is named below ) or us (if plural inventors are named below ) and described in the application for United States Letters Patent therefor, executed on even date herewith, and all United States Letters Patent which may be granted therefor, and all divisions, continuations and extensions thereof, the said interest being the entire ownership of the said Letters Patent when granted, to be held and enjoyed by said Hitachi, Ltd., its successors, assigns or other legal representatives, to the full end of term for which said Letters Patent may be granted as fully and entirely as the same would have been held and enjoyed by me or us if this assignment and sale had not been made;

And I hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of the above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal, reviewed or reissue applications or in any amendment, extension, or interference proceedings, or otherwise to secure the title thereto in said assignee;

And I do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said Hitachi, Ltd.,

Signed on the date(s) indicated aside our signatures:

INVENTOR(S)  
(発明者フルネームサイン)

Date Signed  
(署名日)

1) <u>Toshiyuki Makiya</u>	<u>6/16/2005</u>
2) <u>Mitsuo Hara</u>	<u>6/16/2005</u>
3) <u>Hidenori Shinohara</u>	<u>6/21/2005</u>
4) <u>Yoshikazu Iwama</u>	<u>6/17/2005</u>
5) _____	_____
6) _____	_____
7) _____	_____
8) _____	_____
9) _____	_____
10) _____	_____