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

103284860

Attorney Docket No. 501.46395X00

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

1. Name of conveying party(ies):  
Shigenori HAYASE  
Shinji MURAI  
Tomoaki ISHIFUJI

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

3. Nature of conveyance/ Execution Date: **May 16, 2006;**  
**May 16, 2006; May 16, 2006.**

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

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)

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 & KRAUS, LLP**

Internal Address:

**1300 NORTH 17<sup>TH</sup> STREET - SUITE 1800**City: **ARLINGTON** State: **VA** Zip **22209**Phone Number: **(703) 312-6600**Facsimile Number: **(703) 312-6666**Email Address: **email@antonelli.com**6. Total number of applications and patents involved **1**7. Total fee (37 CFR 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: **1073**  
Expiration date: **06/10**

b. Deposit account number: **01-2135**Authorized User Name: **William I. Solomon****DO NOT USE THIS SPACE**

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.*

**Paul J. Skwierawski, Reg#32,173**

Name of Person Signing

Signature

**07/27/06**

Date

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

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, VA 22313-1450

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**PATENT**  
**REEL: 018136 FRAME: 0790**

# 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

# WIRELESS DATA COMMUNICATION SYSTEM, WIRELESS DATA COMMUNICATION METHOD AND COMMUNICATION APPARATUS

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)	Shigemori Hayase	5/16/2006
2)	Shinji Murai	5/16/2006
3)	Tomoaki Ishifuji	5/16/2006
4)		
5)		
6)		
7)		
8)		
9)		
10)		

# PATENT

**RECORDED: 07/27/2006**

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