

08-30-2004

BOX ASSIGNMENTS

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TO THE DIRECTOR OF THE U.S. PATENT AND TRADEMARK OFFICE
SIR: PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENTS OR COPY THEREOF.

22278 U.S. PTO
10/923713

082404

1. NAME OF CONVEYING PARTY(IES) (ASSIGNORS(S)):

- 1. Hiroyasu Uchida
- 2. Takanobu Ishibashi
- 3. Mitsuaki Satsukawa
- 4. Makoto Kamoi
- 5. Kazuaki Naruse
- 6.
- 7.
- 8.

ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? YES NO

2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:

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ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED? YES NO

3. NATURE OF CONVEYANCE (DOCUMENT):

(Submit herewith only one document for recordation—multiple copies of same Assignment signed by different inventors is one document)

- ASSIGNMENT OF
- WHOLE
- PART INTEREST
- ORIGINAL
- FACSIMILE/PHOTOCOPY
- CHANGE OF NAME
- VERIFIED TRANSLATION
- SECURITY
- MERGER
- OTHER:

EXEC. DATE: (1) August 17, 2004, (2) August 18, 2004, (3) August 18, 2004, (4) August 18, 2004, (5) August 18, 2004

EXECUTION DATE(S) ON THE DECLARATION IF FILED HERewith: (**NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY!**) (1) August 17, 2004, (2) August 18, 2004, (3) August 18, 2004, (4) August 18, 2004, (5) August 18, 2004

4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached? YES NO

A. PAT. APP. NO.(S) series code/serial no.	INVENTOR name in item 1	B. PATENT NO.(S)	INVENTOR name in item 1
NEW	0311438		

5. Name & Address of Party to Whom Correspondence Concerning Document Should be Mailed:

Pillsbury Winthrop LLP
Intellectual Property Group
P.O. Box 10500 McLean, VA 22102

6. NUMBER INVOLVED:
APPLNS 1 + PATS 0 = TOTAL = 1

7. AMOUNT OF FEE DUE: (Code 8021)
ABOVE TOTAL x \$40 = \$40

5.5 ATTY DKT:

P 0311438	T4A0A-04S0717-1
MATTER NO.	CLIENT REF.

8. PLEASE CHARGE TO OUR DEPOSIT ACCOUNT
NUMBER: 03-3975

UNDER ORDER NO	008312	0311438
dup. sheet not required	CLIENT NO.	MATTER NO.

9. 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.

10. Total number of pages including this cover sheet, attachments and document (do not file dup. Cover sheet)

3

Signature

Attorney: Jeffrey D. Karceski

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FILE WITH PTO RETURN RECEIPT (PAT-103A)

08/27/2004 MGETACHE 00000124 033975 10923713

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PAT-114X 9/03

PATENT
REEL: 015737 FRAME: 0098

ASSIGNMENT

(04S0727-1)

In consideration of value received, I, having a residence as stated below above my name, the sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are listed below) of an invention described in an application for United States patent entitled:

WIRELESS COMMUNICATION DEVICE AND WIRELESS COMMUNICATION METHOD

sell and assign to
KABUSHIKI KAISHA TOSHIBA
a Japanese corporation, having a business address at
1-1, Shibaura 1-chome, Minato-ku, Tokyo 105-8001, Japan

its successors, assigns or nominees, hereinafter referred to as "Assignee", my entire right, title and interest in and to said invention as disclosed, shown and described in said United States patent application:

(check one) executed concurrently herewith
 executed on _____ ;
 Application No. _____ , filed _____ ;

and in and to all applications for patent and patents for invention including all divisions, reissues, continuations, substitutes and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property, including rights of priority, resulting from the filing of any of said applications; and I authorize and request any official whose duty is to issue patents, to issue any patent on said invention or resulting therefrom to said Assignee, and I agree that on request and without further consideration, but at the expense of said Assignee, I will communicate to said Assignee or its representatives all facts known to me respecting said invention and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing, continued prosecution, reissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to aid said Assignee to obtain and enforce proper patent protection for said invention.

I hereby grant the following law firm 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 U.S. Patent and Trademark Office for recordation of this document.

Pillsbury Winthrop, LLP, 1600 Tysons Boulevard, McLean, Virginia 22102

ASSIGNMENT

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Kazuaki Naruse August 18, 2004
 Kazuaki Naruse Date: