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Docket No.: L9289.01172

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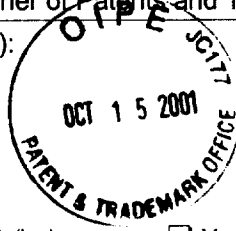
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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Sadaki FUTAGI  
Mitsuru UESUGI  
Tadashi MATSUMOTO

10-1521



Additional names(s) of conveying party(ies)  Yes  No

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

Name: Matsushita Communication Industrial Co., Ltd.

Internal Address: \_\_\_\_\_

Street Address: 3-1, Tsunashima-higashi 4-chome,

Kohoku-ku, Yokohama, Kanagawa 223-8639 JAPAN

City: \_\_\_\_\_ State: \_\_\_\_\_ ZIP: \_\_\_\_\_

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

3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other \_\_\_\_\_

Execution Date: September 20, 2001

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

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

A. Patent Application No.(s)

09/933,038

B. Patent No.(s)

Additional numbers attached?  Yes  No

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

Name: James E. Ledbetter, Esq.

Internal Address: Registration No. 28,732

STEVENS, DAVIS, MILLER & MOSHER, LLP

L9289.01172

Street Address: 1615 L Street, N.W., Suite 850

City: Washington State: DC ZIP: 20036

6. Total number of applications and patents involved: 1

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

Enclosed - Any excess or insufficiency should be credited or debited to deposit account

Authorized to be charged to deposit account

8. Deposit account number:

19-4375

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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.

James E. Ledbetter

Name of Person Signing

Signature

October 15, 2001

Date

Total number of pages including cover sheet, attachments, and document: 3

Mail documents to be recorded with required cover sheet information to:  
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**PATENT**  
**REEL: 012251 FRAME: 0922**

NTT DoCoMo, Inc.

11-1, Nagatacho 2-chome,  
Chiyoda-ku, Tokyo 100-6150  
JAPAN

**USA  
ASSIGNMENT OF PATENT APPLICATION**

- (1) Sadaki FUTAGI
- (2) Mitsuru UESUGI
- (3) Tadashi MATSUMOTO
- (4) \_\_\_\_\_
- (5) \_\_\_\_\_

In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to

- (6) MATSUSHITA COMMUNICATION INDUSTRIAL CO., LTD.
- (6a) of 3-1, Tsunashima-higashi 4-chome, Kohoku-ku, Yokohama, Kanagawa 223-8639 JAPAN
- (7) NTT DoCoMo, Inc.
- (7a) of 11-1, Nagatacho 2-chome, Chiyoda-ku, Tokyo 100-6150 JAPAN

(hereinafter designated as the Assignee) the entire rights, title and interest for the United States, its territories, dependencies and possessions, and for the country of

(8) \_\_\_\_\_ in the invention, and all applications for patent and any Letters Patent which may be granted therefor, known as

- (9) RADIO COMMUNICATION APPARATUS AND CHANNEL  
ESTIMATING METHOD (Case No. \_\_\_\_\_)

for which the undersigned has (have) executed on even date herewith an application for patent in the United States of America or, if not on even date, then has executed

(10) on \_\_\_\_\_ or has already filed

(11) U.S. appln. Serial No. 09/933, 038, filed on August 21, 2001

(12) The undersigned acknowledges an obligation of assignment of this invention to said assignee at the time the invention was made.

- 1) The undersigned agree(s) to execute all papers necessary in connection with the application and any continuing or divisional applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.
- 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 and to cooperate with the Assignee in every way possible in obtaining such 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 a grant of a valid United States patent to the Assignee.
- 5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from said application or any division or divisions or continuing applications thereof 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 agreement in conflict herewith.
- 6) The undersigned hereby grant(s) the firm of STEVENS, DAVIS, MILLER & MOSHER, L.L.P. the power to insert on this assignment any further identification which may be necessary or desirable to comply with the rules of the United States Patent Office for recordation of this document.

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

Date September 20, 2001 Signature of Inventor (1) Sadaki Futagi (Seal)

Date September 20, 2001 Signature of Inventor (2) Mitsuru Uesugi (Seal)

Date September 20, 2001 Signature of Inventor (3) Tadashi Matsumoto (Seal)

Date \_\_\_\_\_ Signature of Inventor (4) \_\_\_\_\_ (Seal)

Date \_\_\_\_\_ Signature of Inventor (5) \_\_\_\_\_ (Seal)

This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A., or (b) a U.S. Counsel if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:

Date \_\_\_\_\_ Signature of Witness \_\_\_\_\_ (Seal)

Date \_\_\_\_\_ Signature of Witness \_\_\_\_\_ (Seal)