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To the Honorable Commissioner of Patents

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ed original documents or copy thereof.

1. Name of conveying party(ies):

Takefumi YAMADA, Shigeru TOMISATO and Tadashi MATSUMOTO

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

Name: NTT DoCoMo, Inc.

Address: 11-1, Nagatacho 2-chome
Chiyoda-ku, Tokyo 100-6150 Japan

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

3. Nature of Conveyance:

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

Execution Date: October 22, 2001

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

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)

09/984,685

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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



22850

6. Total 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: 15-0030

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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.

Marvin J. Spivak

Name of Person Signing

Registration Number: 24,913

Joseph A. Scafetta, Jr.
Signature

Joseph A. Scafetta, Jr.
Registration No. 26,803

Dec. 14 2001
Date

Total number of pages including this cover sheet: 3

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PATENT
REEL: 012364 FRAME: 0743

ASSIGNMENT OF APPLICATION

WHEREAS, I (WE), Takefumi YAMADA of 19-11-201, Yanagi-cho, Kanazawa-ku,
Yokohama-shi, Kanagawa 236-0026 Japan, Shigeru TOMISATO of 8-31-318, Saido 2-chome,
Konan-ku, Yokohama-shi, Kanagawa 233-0008 Japan and Tadashi MATSUMOTO of 16-17,
Kamiimaizumi 4-chome, Ebina-shi, Kanagawa 243-0431 Japan, respectively, have invented certain
new and useful improvements in:

"ADAPTIVE EQUALIZATION APPARATUS AND METHOD", for
which an application for Letters Patent was executed on October 22, 2001
(Application No. 09/984,685, filed October 31, 2001), and

WHEREAS, NTT DoCoMo, Inc. (hereinafter referred to as "ASSIGNEE") having a place of
business at: 11-1, Nagatacho 2-chome, Chiyoda-ku, Tokyo 100-6150 Japan, is desirous of acquiring
the entire right, title and interest in and to said invention and in and to any Letters Patent that may be
granted therefore in the United States and its territorial possessions and in any and all foreign
countries;

NOW, THEREFORE, for good and valuable consideration which is hereby acknowledged,
I(WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right
to the said invention in the United States and its territorial possessions and in all foreign countries and
the entire right, title and interest in and to any and all Letters Patent which may be granted therefore in
the United States and its territorial possessions and in any and all foreign countries and in and to any
and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its
territorial possessions and any and all foreign countries to issue any and all of said Letters Patent,
when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to
the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full
end of the term for which said Letters Patent may be granted, as fully and entirely as the same would
have been held by me (us) had this Assignment and sale not been made.

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his)
representatives any facts known to me (us) respecting said invention, and testify in any legal
proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue
applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be
issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said
ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention
in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of Oblon, Spivak, McClelland, Maier & Neustadt, P.C. of Fourth Floor, 1755 Jefferson Davis Highway, Arlington, Virginia 22202 the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date:

October 22, 2001

Takefumi Yamada
(Signature of Inventor) Takefumi YAMADA

Date:

October 22, 2001

Shigeru Tomisato
(Signature of Inventor) Shigeru TOMISATO

Date:

October 22, 2001

Tadashi Matsumoto
(Signature of Inventor) Tadashi MATSUMOTO

Date:

(Signature of Inventor)

Date:

(Signature of Inventor)

Date:

(Signature of Inventor)

Date:

(Signature of Inventor)

Date:

(Signature of Inventor)

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