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9.23.02



U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks 102233273 Attached original documents or copy thereof.

1. Name of conveying party(ies):

Naoya WADA
Hideyuki SOTOBAYASHI
Ken-ichi KITAYAMA

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

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

Name: Communications Research Laboratory (90%)
Address: 4-2-1 Nukui-Kitamachi, Koganei-shi,
Tokyo, Japan

3. Nature of Conveyance:

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

Execution Date: September 10, 2002

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)
09/594,556

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

Signature

9/23/02
Date

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PATENT
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ASSIGNMENT

WHEREAS, Naoya WADA and Hideyuki SOTOBAYASHI of c/o Communications Research Laboratory, Independent Administrative Institution, 4-2-1 Nukui-Kitamachi, Koganei-shi, Tokyo, Japan; and Ken-ichi KITAYAMA of c/o Department of Electronics and Information Systems, Osaka University, 2-1, Yamadaoka, Suita, Osaka, Japan, (hereinafter referred to collectively as "ASSIGNORS") are joint owners with Communications Research Laboratory, by assignment, of the application for letters patent of the United States of America Application No. 09/594,556, filed June 15, 2000; and

WHEREAS, Communications Research Laboratory of 4-2-1 Nukui-Kitamachi, Koganei-shi, Tokyo, Japan, an Independent Administrative Institution organized and existing under the laws of the Country of Japan (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring an undivided 90% right, title and interest in and to said application for letters patent and the inventions described therein;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00) and other valuable consideration, the receipt of which is hereby acknowledged, the ASSIGNORS by these presents do sell, assign, and transfer unto said ASSIGNEE an additional 40% right, title and interest to be divided as follows: Naoya WADA, 16% (retaining 4%); Hideyuki SOTOBAYASHI, 12% (retaining 3%) and Ken-ichi KITAYAMA, 12% (retaining 3%), for the territory of the United

States of America in and to the aforesaid application for letters patent and the invention described therein and in and to any and all Letters Patent which may be granted therefor and in and to any and all divisions, continuations, substitutions and renewals thereof.

ASSIGNORS hereby authorize and request the Patent Office in the United States and its territorial possessions to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the joint assignee of an undivided 90% right, title and interest in and to the same, for the use and behoof of said ASSIGNEE, its 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 ASSIGNORS had this Assignment and sale not been made.

Date: September 10, 2002

By:

Naoya Wada
Naoya WADA

Date: September 10, 2002

By:

Hideyuki Sotobayashi
Hideyuki SOTOBAYASHI

Date: September 10, 2002

By:

Ken-ichi Kitayama
Ken-ichi KITAYAMA