



VENABLE, BAETJER, HOWARD & CIVILETTI, LLP
Including professional corporations

1201 New York Avenue, N.W., Suite 1000
Washington, D.C. 20005-3917
(202) 962-4800, Fax (202) 962-8300
www.venable.com

RE
5-25-01

09-14-2001



101842266

VIRGINIA

TO THE ASSISTANT COMMISSIONER FOR PATENTS
WASHINGTON, D.C. 20231

Attorney Docket: 32307-168884

REQUEST FOR RECORDING AND COVER SHEET UNDER 37 C.F.R. 3.28 AND 3.31

Please record the attached original document.

1. Name of party conveying the interest:

Koichi TAKIGUCHI; Katsunari OKAMOTO; Tomohiro SHIBATA; Masao KATO and Takashi GOH

2. Name and address of party receiving the interest:

NIPPON TELEGRAPH AND TELEPHONE CORPORATION
3-1 Ohtemachi 2-chome, Chiyoda-ku, Tokyo 100-8116
JAPAN

3. Description of the interest conveyed or transaction to be recorded:
☒ Assignment ☐ Other:

4. Application Number: 09/753,565 filed January 4, 2001
☒ Document filed together with a patent application executed on
December 25, 2000

5. Address correspondence concerning this request to: VENABLE
P.O. Box 34385, Washington, D.C. 20043-9998.

6. Number of Applications, Patents or Registrations and total fee:
Patents: one patent right @ \$40 Total: \$40.00

7. Date of execution of document: December 25, 2000

8. If document is an assignment of a trademark right to an assignee who
is not domiciled in the United States, such assignee has designated a
domestic representative
☐ per attached designation ☐ other:

9. To the best of knowledge and belief of the undersigned, the foregoing
information is true and correct and any attached copy is a true copy of
the original document.

10. Date: January 4, 2001

Name: Robert J. Frank

Registration Number: 19,112

RJF/njp

1201 New York Avenue, N.W., Suite 1000
Washington, D.C. 20005-3917
(202) 962-4800, Fax (202) 962-8307
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05-25-2001



101729879

TO THE ASSISTANT COMMISSIONER FOR PATENTS
WASHINGTON, D.C. 20231

Attorney Docket: 32307-168884

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01/08/2001 VYANG1 00000113 09753565

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**ASSIGNMENT OF APPLICATION
FOR UNITED STATES LETTERS PATENT**

WHEREAS Koichi TAKIGUCHI, Katsunari OKAMOTO, Tomohiro SHIBATA, Masao KATO
and Takashi GOH, all of Ibaraki, Japan

hereinafter (collectively) referred to as the assignor, has invented a certain
improvement relating to CDMA ENCODER-DECODER, CDMA COMMUNICATION SYSTEM,
WDM-CDMA COMMUNICATION SYSTEM

for which said assignor has caused an application for United States Letters Patent
to be prepared,

- [X] the inventor declaration for said application being executed concurrently
with the execution of this instrument; said application to be filed in
the United States Patent and Trademark Office;
- [] said application having been filed in the United States Patent and
Trademark Office on _____, Application Number
[if known] _____;
- [] said application having been filed under the Patent Cooperation Treaty on
_____, Application No. _____, the United
States of America being designated.

AND WHEREAS NIPPON TELEGRAPH AND TELEPHONE CORPORATION, 3-1 Otemachi
2-chome, Chiyoda-ku, Tokyo 100-8116, Japan

referred to as the assignee, is desirous of acquiring the entire right, title and
interest in and to said application, including any and all divisions and
continuations thereof, and in and to said invention and any and all patents which
may be granted therefor, including, any and all renewals, reissues and prolongations
thereof;

NOW THIS WITNESSETH, that for and in consideration of One Dollar (\$1.00),
and other good and valuable consideration paid by said assignee to said assignor,
the receipt of which is hereby acknowledged, said assignor hereby assigns, sells
and transfers to said assignee, and said assignee's successors and assigns, the
entire and exclusive right, title and interest in and to said application, including
any and all divisions and continuations thereof, and in and to said invention and
any and all patents which may be granted therefor, including any and all renewals,
reissues and prolongations thereof; said assignee, and said assignee's successors
and assigns, to have, hold exercise and enjoy the said application, including any
all divisions and continuations thereof, and the said invention and any all patents
which may be granted therefor, including any and all renewals, reissues and
prolongations thereof, with all the rights, powers, privileges and advantages in
anywise arising from or appertaining thereto, for and during the term or terms
of any and all such patents when granted, including any and all renewals, reissues
and prolongations thereof, for the use and benefit of said assignee, and said
assignee's successors and assigns, in as ample and beneficial a manner as the said
assignor might or could have held and enjoyed the same, if this assignment had
not been made.

AND said assignor hereby agrees to perform, upon the request of said assignee,
or said assignee's successors or assigns, any and all acts relating to the obtaining
or to the asserting of said patents, including any and all renewals, reissues and
prolongations thereof.

AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent on said application, and on any and all divisions and continuations thereof, to said assignee, and said assignee's successors and assigns, in accordance herewith.

EXECUTED, this 25th day of December, 2000

WITNESSES:

Signature: Toshiyuki Shimada
 Name: Toshiyuki SHIMADA
 Address: c/o NTT Intellectual
Property Center, 9-11, Midori-cho,
3-chome, Musashino-shi,
Tokyo 180-8585, Japan

ASSIGNOR:

Signature: Koichi Takiguchi
 Name: Koichi TAKIGUCHI

EXECUTED, this 25th day of December, 2000

WITNESSES:

Signature: Toshiyuki Shimada
 Name: Toshiyuki SHIMADA
 Address: c/o NTT Intellectual
Property Center, 9-11, Midori-cho,
3-chome, Musashino-shi,
Tokyo 180-8585, Japan

ASSIGNOR:

Signature: Katsunari Okamoto
 Name: Katsunari OKAMOTO

EXECUTED, this 25th day of December, 2000

WITNESSES:

Signature: Toshiyuki Shimada
 Name: Toshiyuki SHIMADA
 Address: c/o NTT Intellectual
Property Center, 9-11, Midori-cho,
3-chome, Musashino-shi,
Tokyo 180-8585, Japan

ASSIGNOR:

Signature: Tomohiro Shibata
 Name: Tomohiro SHIBATA

EXECUTED, this 25th day of December, 2000

WITNESSES:

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Name: Toshiyuki SHIMADA
Address: c/o NTT Intellectual
Property Center, 9-11, Midori-cho,
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Tokyo 180-8585, Japan

ASSIGNOR:

Signature: Masao Kato
Name: Masao KATO

EXECUTED, this 25th day of December, 2000

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3-chome, Musashino-shi,
Tokyo 180-8585, Japan

ASSIGNOR:

Signature: Takashi Goh
Name: Takashi GOH



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

AUGUST 07, 2001

PTAS



101729679A

VENABLE
P.O. BOX 34385
WASHINGTON, D.C. 20043-9998

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF NON-RECORDATION OF DOCUMENT

DOCUMENT ID NO.: 101729679

THE ENCLOSED DOCUMENT HAS BEEN EXAMINED AND FOUND NON-RECORDABLE BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. THE REASON(S) FOR NON-RECORDATION ARE STATED BELOW. DOCUMENTS BEING RESUBMITTED FOR RECORDATION MUST BE ACCOMPANIED BY A NEW COVER SHEET REFLECTING THE CORRECT INFORMATION TO BE RECORDED AND THE DOCUMENT ID NUMBER REFERENCED ABOVE.

THE ORIGINAL DATE OF FILING OF THIS ASSIGNMENT DOCUMENT WILL BE MAINTAINED IF RESUBMITTED WITH THE APPROPRIATE CORRECTION(S) WITHIN 30 DAYS FROM THE DATE OF THIS NOTICE AS OUTLINED UNDER 37 CFR 3.51. THE RESUBMITTED DOCUMENT MUST INCLUDE A STAMP WITH THE OFFICIAL DATE OF RECEIPT UNDER 37 CFR 3. APPLICANTS MAY USE THE CERTIFIED PROCEDURES UNDER 37 CFR 1.8 OR 1.10 FOR RESUBMISSION OF THE RETURNED PAPERS, IF THEY DESIRE TO HAVE THE BENEFIT OF THE DATE OF DEPOSIT IN THE UNITED STATES POSTAL SERVICE.

SEND DOCUMENTS TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231. IF YOU HAVE ANY QUESTIONS REGARDING THIS NOTICE, YOU MAY CONTACT THE INDIVIDUAL WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723.

1. THE COVER SHEET SUBMITTED FOR RECORDING DOES NOT ADEQUATELY IDENTIFY THE PROPERTY NUMBER(S). THE APPLICATION NUMBER AND SERIES CODE OR THE SERIAL NUMBER AND FILING DATE IS REQUIRED.

DIANE RUSSELE, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

DATES DOCKETED

32307-168884 RSF
DUE: September 2, 2001 (Resubmitted documents due)
C/U: September 4, 2001
DKTD BY RSF MC

AUG 13 2001

RECORDED: 05/21/2001

PATENT
REEL: 012150 FRAME: 0195