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original documents or copies thereof.

1. Name of conveying party(ies):

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

Shinya SUZUKI - October 19, 1999
 Kimitoshi TAKEUCHI - October 18, 1999
 Toru YOSHIHARA - October 18, 1999 and
 Makoto OOHASHI - October 19, 1999



HITACHI TELECOM TECHNOLOGIES, LTD.
 94, Aza Funabamukai, Fukushima-ken
 Koriyama-shi, Japan

Additional conveying party(ies) NO

3. Nature of conveyance:

ASSIGNMENT

Execution Date:

Same as above

Additional name(s) & address(es) attached? NO

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

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

A. Patent Application Number(s):

09/395,778

B. Patent Number(s):

Additional numbers attached? NO

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

Richard L. Schwaab
 FOLEY & LARDNER
 Washington Harbour
 3000 K Street, N.W., Suite 500
 Washington, D.C. 20007-5109

6. Total number of applications/patents involved: 1

7. Total fee (37 C.F.R. § 3.41): \$40.00

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Richard L. Schwaab

December 3, 1999

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PATENT
 REEL: 010423 FRAME: 0423

ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto **HITACHI TELECOM TECHNOLOGIES, LTD.**

name and
address of
assignee

**94, Aza Funabamukai, Fukushima-ken
Koriyama-shi, Japan**

(hereinafter ASSIGNEE) all right, title and interest for the United States, its territories and possessions in and to this invention relating to

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invention

**SYSTEM FOR TRANSMITTING DTMF SIGNAL AND COMMUNICATION
EQUIPMENT THEREOF**

as set forth in this United States Patent Application

check one

☐ executed concurrently herewith

☐ executed on _____

☒ Serial No. 09/395,778 Filed September 14, 1999

in and to said United States Patent Application including any and all divisions or continuations thereof and in and to any and all Letters Patent of the United States which may issue on any such application or for said invention, including any and all reissues or extensions thereof, to be held and enjoyed by said ASSIGNEE, its successors, legal representatives and assigns to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made;

Each of the undersigned hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all such Letters Patent to said ASSIGNEE, its successors or assigns in accordance herewith;

Each of the undersigned warrants and covenants that he has the full and unencumbered right to sell and assign the interests herein sold and assigned and that he has not executed and will not execute any document or instrument in conflict herewith;

Each of the undersigned further covenants and agrees he will communicate to said ASSIGNEE, its successors, legal representatives or assigns all information known to him relating to said invention or patent application and that he will execute and deliver any papers, make all rightful oaths, testify in any legal proceedings and perform all other lawful acts deemed necessary or desirable by said ASSIGNEE, its successors, legal representatives or assigns to perfect title to said invention, to said application including divisions and continuations thereof and to any and all Letters Patent which may be granted therefor or thereon, including reissues or extensions, in said ASSIGNEE, its successors, or assigns or to assist said ASSIGNEE, its successors, legal representatives or assigns in obtaining, reissuing or enforcing Letters Patent of the United States for said invention;

Each of the undersigned hereby grants the firm of **FOLEY & LARDNER** the power to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

NAMES AND SIGNATURES OF INVENTORS		
Name: Shinya SUZUKI	Signature: <i>Shinya Suzuki</i>	Date: <i>Oct. 19, 1999</i>
Name: Kimitoshi TAKEUCHI	Signature: <i>Kimitoshi Takeuchi</i>	Date: <i>Oct. 18, 1999</i>
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Name: Makoto OOHASHI	Signature: <i>Makoto Ohashi</i>	Date: <i>Oct. 19, 1999</i>
NAMES AND SIGNATURES OF WITNESSES		
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