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RECORDATION COVER SHEET - PATENT APPLICATION

NAME OF CONVEYING PARTY : Atsushi SHIMBO

NAME OF RECEIVING PARTY : Oki Electric Industry Co., Ltd.

ADDRESS OF RECEIVING PARTY : 7-12, Toranomom 1-chome, Minato-ku,
Tokyo, Japan

NATURE OF CONVEYANCE : Assignment of U.S. patent application

CONVEYANCE EXECUTION DATE : September 14, 1998

PATENT APPLICATION NO. : To Be Assigned

APPLICATION FILED TOGETHER WITH THIS DOCUMENT : Yes

APPLICATION EXECUTION DATE : September 8, 1998

CORRESPONDENCE ADDRESS : RABIN & CHAMPAGNE, P.C.
1725 K Street, N.W., Suite 1111
Washington, D.C. 20006

ATTORNEY REFERENCE : OKI 196

TOTAL NUMBER OF PATENTS AND APPLICATIONS INVOLVED : One

TOTAL FEE PAID : \$40.00

METHOD OF PAYMENT : Enclosed
 Authorized to be charged to deposit account

FEE ENCLOSED: \$ 87.00
Please charge any further fee to our Deposit Account No. 18-0002

In the event there is attached hereto no check, or a check for an insufficient amount, please charge the fee to our Account No. 18-0002 and notify us accordingly.

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

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Steven M. Rabin
(Registration No. 29,102)

Date

SMR:lep

Total number of pages including cover sheet, attachments and document: 2

ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

WHEREAS Atsushi SHIMBO

hereinafter referred to collectively as the assignor, has invented a certain improvement relating to DETECTION CIRCUIT OF TONE SIGNAL

[X] the inventor's 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 _____, authorization being hereby given to my attorneys, Steven M. Rabin, Thomas M. Champagne, Christopher H. Lynt and Robert H. Berdo, Jr. of RABIN, CHAMPAGNE & LYNT, P.C., 1725 K Street, N.W., Washington, D.C. 20006, to insert here in parentheses (Application Serial No. _____) the application serial number of said application when known;

[] said application having been filed under the Patent Cooperation Treaty on _____, Serial No. _____, the United States of America being designated.

Oki Electric Industry Co., Ltd. of 7-12, Toranomom 1-chome, Minato-ku, Tokyo, Japan, hereinafter 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 full 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 and all divisions and continuations thereof, and the said invention and any and 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 14th day of September, 1998.

WITNESSES:

Signature: Tomoko Tanaka
Name: Tomoko TANAKA
Address: c/o Oki Electric Industry Co., Ltd.
7-12, Toranomom 1-chome, Minato-ku, Tokyo, Japan

ASSIGNOR:

Signature: Atsushi Shimbo
Name: Atsushi SHIMBO

Signature: _____
Name: _____
Address: _____

Signature: _____
Name: _____

WITNESSES:

Signature: _____
Name: _____
Address: _____

ASSIGNOR:

Signature: _____
Name: _____

Signature: _____
Name: _____
Address: _____

Signature: _____
Name: _____