FORM PTO-1595 (Rev. 6-93) OMB No. 0651-0011 (exp. 4/94) 08-21-2000

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U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

Aty. Docket No. 230980-0214 To the Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof. 2. Name and address of receiving party(ies): 1. Name of conveying party(ies): Roland Corporation 1) Tadao Kikumoto 4-16 1-chome, Dojimahama 2) Atsushi Hoshiai AUG 1 5 2000 Osaka, Japan 530-0004 3) Satoshi Kusakabe Additional name(s) of conveying party(ies) attached? Yes Additional name(s) & address(es) attached? Yes No Nature of conveyance: Assignment Merger Change of Name Security Agreement Other: Execution Date: 1) 8/1/2000; 2) 8/2/2000; 3) 8/1/2000 4. Application number(s) or patent number(s): 09/511,009 If this document is being filed together with a new application, the execution date of the application is: B. Patent No.(s) A. Patent Application No.(s) Additional numbers attached? Yes No 6. Total number of applications and patents involved: 1 5. Name and address of party to whom correspondence concerning document should be mailed: 7. Total fee (37 CFR 3.41): \$40.00 Enclosed Name: Ted Rittmaster Authorized to be charged to deposit account Address: Foley & Lardner 2029 Century Park East, Suite 3500 8. Please charge any additional fees or credit any Los Angeles, CA 90067 overpayments to our Deposit account number: 50-0872. DO NOT USE THIS SPACE 9. Statement and signature: To the best of my knowledge and belief, the foregoing information is true and confect and any attached copy is a true copy of the original document. Ted Rittmaster **B**ate Signature Name of Person Signing Total number of pages including cover sheet, attachments, and document: 6

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Attv. Dkt. No. 230980.0214

ASSIGNMENT

WHEREAS, Tadao Kikumoto of 4-16, 1-chome, Dojimahama, Osaka, Japan 530-0004; Atsushi Hoshiai of 4-16, 1-chome, Dojimahama, Osaka, Japan 530-0004; and Satoshi Kusakabe of 4-16, 1-chome, Dojimahama, Osaka, Japan 530-0004; (hereinafter collectively referred to as "ASSIGNOR") has invented a certain invention entitled WAVEFORM REPRODUCTION APPARATUS (Atty. Dkt. No. 230980.0214) for which an application for United States Letters Patent was filed on February 22, 2000 as Application No. 09/511.009; and

WHEREAS, ROLAND CORPORATION a corporation duly organized and existing under the laws of Japan, and having its principal place of business at 4-16 Dojimahama 1-chome, Kita-ku, Osaka 530 Japan; (hereinafter referred to as "ASSIGNEE") is desirous of acquiring the entire interest therein;

NOW THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR has sold, assigned, and transferred, and by these presents hereby sells, assigns, and transfers, unto ASSIGNEE, its successors and assigns, the full and exclusive right, title, and interest in and to (a) the above-identified invention or inventions and all improvements and modifications thereof, (b) the above-identified application and all other applications for Letters Patent of the United States and countries foreign thereto for the above-identified invention or inventions and all improvements and modifications thereof, (c) all Letters Patent which may issue from said applications in the United States and countries foreign thereto, (d) all divisions, continuations, reissues, and extensions of said applications and Letters Patent, and (a) the right to claim for any of said applications the full benefits and priority rights under the international Convention and any other international agreement to which the United States adheres; such right, title, and interest to be held and enjoyed by ASSIGNEE, its successors 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 ASSIGNOR had this Assignment not been made.

ASSIGNOR HEREBY AUTHORIZES AND REQUESTS the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE as assignee of the entire interest, for the sole use and benefit of ASSIGNEE, its successors and assigns,

ASSIGNOR HEREBY AGREES (a) to communicate to ASSIGNEE, its successors and assigns, or their representatives or agents, all facts and information known or available to ASSIGNOR respecting said invention or inventions, improvements, and modifications including evidence for interference, reexamination, reissue, opposition, revocation, extension, or infringement purposes or other legal, judicial, or administrative proceedings,

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whenever requested by ASSIGNEE; (b) to testify in person or by affidavit as required by ASSIGNEE, its successors and assigns, in any such proceeding in the United States or a country foreign thereto; (c) to execute and deliver, upon request by ASSIGNEE, all lawful papers including, but not limited to, original, divisional, continuation, and reissue applications, renewals, assignments, powers of attorney, oaths, affidavits, declarations, depositions; and (d) to provide all reasonable assistance to ASSIGNEE, its successors and assigns, in obtaining and enforcing proper title in and protection for said invention or inventions, improvements, and modifications under the intellectual property laws of the United States and countries foreign thereto.

ASSIGNOR HEREBY REPRESENTS AND WARRANTS that ASSIGNOR has the full and unencumbered right to sell, assign, and transfer the interests sold, assigned, and transferred herein, and that ASSIGNOR has not executed and will not execute any document or instrument in conflict herewith.

ASSIGNOR HEREBY GRANTS to the law firm of Foley & Lardner the power and authority 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.

ASSIGNOR UNDERSTANDS AND AGREES that the attorneys and agents of the law firm of Foley & Lardner do not personally represent ASSIGNOR or ASSIGNOR's legal interests, but instead represent the interests of ASSIGNEE; since said attorneys and agents cannot provide legal advice to ASSIGNOR with respect to this Assignment, ASSIGNOR acknowledges its right to seek its own independent legal counsel.

Executed this day of Aug . 2000.

Tadas Cibemato
Tadas Kikumoto

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Atty. Dkt. No. 230980.0214

Executed this 2 day of Aug , 2000.

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