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FORM PTO-1595
(Rev. 06/93)



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U.S. Department of Commerce
Patent and Trademark Office

OMB No. 0651-0011 (Exp. 04/94)

Attorney Docket No.: SONY-31800

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Please record the attached original documents or copy thereof.

<p>1. Name of conveying party(ies):</p> <p>Jae-Hyeong Kim Patrick T. Chuang Chungji Lu</p> <p>Additional name(s) of conveying party(ies) attached.</p>	<p>2. Name and address of receiving party(ies):</p> <p>SONY CORPORATION 6-7-35 Kitashinagawa, Shinagawa Tokyo, 141 JAPAN</p> <p>SONY ELECTRONICS INC. 1 Sony Drive Park Ridge, New Jersey 07656-8003</p>
<p>3. Nature of conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other: _____</p> <p>Execution Date: <u>Jae-Hyeong Kim and Patrick T. Chuang signed on April 12, 2006 and Chungji Lu signed on April 19, 2006.</u></p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);">112991 U.S. PTO 11/410352</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">042506</p>
<p>4. Application number(s) or patent number(s):</p> <p><input checked="" type="checkbox"/> This document is being filed together with a new application, the execution date of the application is: <u>April 19, 2006</u> <input type="checkbox"/> Patent Application Serial No.(s): filed on . <input type="checkbox"/> Patent No.(s): <input type="checkbox"/> Additional numbers attached.</p>	
<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Jonathan O. Owens HAVERSTOCK & OWENS LLP 162 North Wolfe Road Sunnyvale, California 94086</p>	<p>6. Total number of applications and patents involved: <u>1</u></p> <p>7. Total fee(s) [37 CFR §§ 1.21(h) and 3.41]:</p> <p><input checked="" type="checkbox"/> Check(s) in the amount of \$1,290.00 (\$1,250.00 to cover the basic filing fee plus \$40.00 to cover the assignment recordation filing fee) enclosed.</p> <p>8. Authorization to Charge Additional Fees:</p> <p><input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees or credit any overpayment associated with this communication and which may be required under 37 CFR §§ 1.21(h) and 3.41 to Deposit Account No. 08-1275.</p>
<p>9. 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.</p> <p>Dated: <u>April 24, 2006</u></p> <p>Signature: <u><i>Jonathan O. Owens</i></u> Name: <u>Jonathan O. Owens</u> Reg. No. <u>37,902</u></p> <p>Total number of pages including cover sheet, attachments, and document: <u>3</u></p>	

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ASSIGNMENT

WHEREAS, WE, Jae-Hyeong Kim, Patrick T. Chuang and Chungji Lu, hereinafter referred to as "ASSIGNOR", have invented certain new and useful improvements as described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: MINIMIZED LINE SKEW GENERATOR

Date of Execution: _____ Filing Date: _____ Serial No.: _____

WHEREAS, Sony Corporation, a Japanese corporation, 6-7-35 Kitashinagawa, Shinagawa, Tokyo, 141 Japan and Sony Electronics Inc., a Delaware corporation, 1 Sony Drive, Park Ridge, NJ 07656-8003, hereinafter referred to as "ASSIGNEE", is desirous of acquiring the entire right, title and interest in said invention and application and in any Letters Patent which may be granted on the same;

NOW THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, receipt of which is hereby acknowledged, Assignor has sold, assigned and transferred, and by these presents does sell, assign and transfer unto said Assignee, and Assignee's successors and assigns, all right, title and interest in and to said invention, said application for United States Letters Patent, and any Letters Patent which may hereafter be granted on the same in the United States and all countries throughout the world including any divisions, renewals, continuations in whole or in part, substitutions, conversions, reissues, prolongations or extensions thereof, said interest to be held and enjoyed by said Assignee as fully and exclusively as it would have been held and enjoyed by said Assignors had this assignment and transfer not been made, to the full end and term of any Letters Patent.

Assignor further agrees that he will, without charge to said Assignee, but at Assignee's expense, cooperate with Assignee in the prosecution of said application and/or applications, execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof, and will perform such other acts as Assignee lawfully may request, to obtain or maintain Letters Patent for said invention and improvement in any and all countries, and to vest title thereto in said Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignor has hereunto signed his name to this assignment on the date indicated below.

Jae-Hyeong Kim
Jae-Hyeong Kim

Patrick T. Chuang
Patrick T. Chuang

Chungji Lu
Chungji Lu

STATE OF California
COUNTY OF Santa Clara

On April 12, 2000 before me, Nicole Rachele Walsh
personally appeared Jae-Hyeong Kim, Patrick T. Chuang and Chungji Lu,

personally known to me - OR - proved to me on the basis of satisfactory evidence to be the person(s) whose names are subscribed to the within instrument and acknowledged to me that ~~he/she~~ they executed the same in ~~his/her~~ their authorized capacity(ies), and that by ~~his/her~~ their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.



Nicole Rachele Walsh
Signature of Notary Public

ASSIGNMENT

WHEREAS, WE, Jae-Hyeong Kim, Patrick T. Chuang and Chungji Lu, hereinafter referred to as "ASSIGNOR", have invented certain new and useful improvements as described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: MINIMIZED LINE SKEW GENERATOR

Date of Execution: _____ Filing Date: _____ Serial No.: _____

WHEREAS, Sony Corporation, a Japanese corporation, 6-7-35 Kitashinagawa, Shinagawa, Tokyo, 141 Japan and Sony Electronics Inc., a Delaware corporation, 1 Sony Drive, Park Ridge, NJ 07656-8003, hereinafter referred to as "ASSIGNEE", is desirous of acquiring the entire right, title and interest in said invention and application and in any Letters Patent which may be granted on the same;

NOW THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, receipt of which is hereby acknowledged, Assignor has sold, assigned and transferred, and by these presents does sell, assign and transfer unto said Assignee, and Assignee's successors and assigns, all right, title and interest in and to said invention, said application for United States Letters Patent, and any Letters Patent which may hereafter be granted on the same in the United States and all countries throughout the world including any divisions, renewals, continuations in whole or in part, substitutions, conversions, reissues, prolongations or extensions thereof, said interest to be held and enjoyed by said Assignee as fully and exclusively as it would have been held and enjoyed by said Assignors had this assignment and transfer not been made, to the full end and term of any Letters Patent.

Assignor further agrees that he will, without charge to said Assignee, but at Assignee's expense, cooperate with Assignee in the prosecution of said application and/or applications, execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof, and will perform such other acts as Assignee lawfully may request, to obtain or maintain Letters Patent for said invention and improvement in any and all countries, and to vest title thereto in said Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignor has hereunto signed his name to this assignment on the date indicated below.

Jae-Hyeong Kim

Patrick T. Chuang

Chungji Lu 04/19/2006

Chungji Lu

STATE OF California
COUNTY OF Santa Clara

On April 19, 2006 before me, Nicole Rachele Walsh,
personally appeared Jae-Hyeong Kim, Patrick T. Chuang and Chungji Lu,
 personally known to me - OR approved to me on the basis of satisfactory evidence to be the person(s) whose names are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Nicole Rachele Walsh

Signature of Notary Public

