

U.S. PTO

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(Rev. 06/93)

04-16-2007

U.S. Department of Commerce

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



Attorney Docket No.: SONY-34700

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

103395028

Sir:

Please record the attached original documents or copy thereof.

<p>1. Name of conveying party(ies):</p> <p>Farhan Baqai Akira Matsui Kenichi Nishio</p> <p>Additional name(s) of conveying party(ies) attached.</p>	<p>2. Name and address of receiving party(ies):</p> <p>Sony Corporation 1-7-1 Konan Minato-ku Tokyo, 108-0075 JAPAN</p> <p>Sony Electronics Inc. 1 Sony Drive Park Ridge, New Jersey 07656-8003</p> <p>Additional name(s) and address(es) attached.</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>March 29, 2007</u></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>March 29, 2007</u>.</p> <p><input type="checkbox"/> Patent Application Serial No.(s): filed on .</p> <p><input type="checkbox"/> Patent No.(s): .</p> <p><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 &amp; 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 2,390.00 (\$2,350.00 to cover the application 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. <u>08-1275</u>.</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>March 29, 2007</u></p> <p>Signature: <u>Jonathan O. Owens</u>  Name: Jonathan O. Owens  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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PATENT  
REEL: 019186 FRAME: 0567

## ASSIGNMENT

WHEREAS, WE, Farhan Bagai, Akira Matsui and Kenichi Nishio, hereinafter referred to as "ASSIGNORS", 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: METHOD OF AND APPARATUS FOR IMAGE DENOISING

Date of execution of application: \_\_\_\_\_ Filing Date: \_\_\_\_\_ Serial No.: \_\_\_\_\_

WHEREAS, SONY CORPORATION, a Japanese corporation, 1-7-1 Konan, Minato-ku, Tokyo, 108-0075 JAPAN and SONY ELECTRONICS INC., a corporation of the State of Delaware, 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, Assignors have sold, assigned and transferred, and by these presents do 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.

Assignors further agree that they 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, Assignors have hereunto signed their names to this assignment on the dates indicated below.

Farhan Bagai  
Date

March 29, 2007  
Date

Akira Matsui  
Date

n/a  
Date

Kenichi Nishio  
Date

n/a  
Date

STATE OF California

COUNTY OF Santa Clara

On March 29, 2007 before me, Nicole Rachele Walsh  
personally appeared Farhan Bagai, Akira Matsui and Kenichi Nishio  
☐ 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

PATENT

REEL: 019186 FRAME: 0568

Express Mail Label NO.: EV969293997US

PATENT  
Attorney Docket No.: SONY-34760

## ASSIGNMENT

WHEREAS, WE, Farhan Baqui, Akira Matsui and Kenichi Nishio, hereinafter referred to as "ASSIGNORS", 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: METHOD OF AND APPARATUS FOR IMAGE DENOISING

Date of execution of application: \_\_\_\_\_ Filing Date: \_\_\_\_\_ Serial No.: \_\_\_\_\_

WHEREAS, SONY CORPORATION, a Japanese corporation, 1-7-1 Konan, Minato-ky, Tokyo, 108-0075 JAPAN and SONY ELECTRONICS INC., a corporation of the State of Delaware, 1 Sony Drive, Park Ridge, NY 07656-8008, 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, Assignors have sold, assigned and transferred, and by these presents do 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.

Assignors further agree that they 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 release 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 therein in said Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignors have hereunto signed their names to this assignment on the dates indicated below.

\_\_\_\_\_  
Farhan Baqui

\_\_\_\_\_  
Date

\_\_\_\_\_  
Akira Matsui

\_\_\_\_\_  
Mar. 29, 2007  
Date

\_\_\_\_\_  
Kenichi Nishio

\_\_\_\_\_  
Mar. 29, 2007  
Date

STATE OF \_\_\_\_\_

COUNTY OF \_\_\_\_\_

On \_\_\_\_\_ before me,  
personally appeared Farhan Baqui, Akira Matsui and Kenichi Nishio

☐ 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.

SEAL

\_\_\_\_\_  
Signature of Notary Public

PATENT

RECORDED: 03/29/2007

REEL: 019186 FRAME: 0569