

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Mark Robertson</td> <td>10/21/2010</td> </tr> <tr> <td>Ming-Chang Liu</td> <td>10/21/2010</td> </tr> <tr> <td>Yoshihiro Murakami</td> <td>10/25/2010</td> </tr> <tr> <td>Toru Kurata</td> <td>10/25/2010</td> </tr> <tr> <td>Yutaka Yoneda</td> <td>10/25/2010</td> </tr> </tbody> </table>		Name	Execution Date	Mark Robertson	10/21/2010	Ming-Chang Liu	10/21/2010	Yoshihiro Murakami	10/25/2010	Toru Kurata	10/25/2010	Yutaka Yoneda	10/25/2010
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Toru Kurata	10/25/2010												
Yutaka Yoneda	10/25/2010												
RECEIVING PARTY DATA													
Name:	Sony Corporation												
Street Address:	1-7-1 Konan, Minato-ku												
City:	Tokyo												
State/Country:	JAPAN												
Postal Code:	108-0075												
PROPERTY NUMBERS Total: 1													
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12912536</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12912536								
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CORRESPONDENCE DATA													
Fax Number:	(408)530-9797												
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
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Email:	JOWENS@HOLLP.COM												
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Address Line 4:	SUNNYVALE, CALIFORNIA 94086												
ATTORNEY DOCKET NUMBER:	SONY-42800												
NAME OF SUBMITTER:	Jonathan O. Owens												

OP \$40.00 12912536

Total Attachments: 2

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ASSIGNMENT

WHEREAS, WE, Mark Robertson, Ming-Chang Liu, Yoshihiro Murakami, Toru Kurata and Yutaka Yoneda, 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 TO INCREASE THE ACCURACY OF PHASE CORRELATION MOTION ESTIMATION IN LOW-BIT-PRECISION CIRCUMSTANCES

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, 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.

Mark Robertson

Mark Robertson

21 October 2010

Date

Ming-Chang Liu

Ming-Chang Liu

OCT 21, 2010

Date

Yoshihiro Murakami

Date

Toru Kurata

Date

Yutaka Yoneda

Date

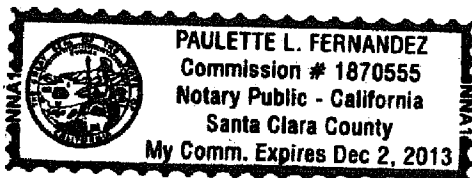
STATE OF California
COUNTY OF Santa Clara

On October 21, 2010 before me, Paulette Fernandez, a notary public, personally appeared Mark Robertson, Ming-Chang Liu, Yoshihiro Murakami, Toru Kurata and Yutaka Yoneda, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/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.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

SEAL



Paulette Fernandez
Signature of Notary Public

ASSIGNMENT

WHEREAS, WE, Mark Robertson, Ming-Chang Liu, Yoshihiro Murakami, Toru Kurata and Yutaka Yoneda, 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:

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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.

Mark Robertson

Date

Ming-Chang Liu

Date

Yoshihiro Murakami

Yoshihiro Murakami

October 25th, 2010

Date

Toru Kurata

Toru Kurata

October 25th, 2010

Date

Yutaka Yoneda

Yutaka Yoneda

October 25th, 2010

Date

STATE OF _____

COUNTY OF _____

On _____ before me, _____, a notary public, personally appeared Mark Robertson, Ming-Chang Liu, Yoshihiro Murakami, Toru Kurata and Yutaka Yoneda, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/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.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

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