PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Yuyu LIU	01/01/2010
Keisuke YAMAOKA	12/15/2009
Takayuki YOSHIGAHARA	12/15/2009
Xi CHEN	01/09/2010

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

Property Type	Number
Application Number:	12613899

CORRESPONDENCE DATA

Fax Number: (202)408-4400

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 202-408-4000

Email: shaunette.mccoy@finnegan.com

Correspondent Name: FINNEGAN, HENDERSON, FARABOW, GARRETT &

Address Line 1: 901 NEW YORK AVENUE, NW

Address Line 4: WASHINGTON, DISTRICT OF COLUMBIA 20001-4413

ATTORNEY DOCKET NUMBER: 09812.1796-00000

NAME OF SUBMITTER: Shaunette E. McCoy

Total Attachments: 4

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PATENT REEL: 023826 FRAME: 0687 OF \$40.00 12613899

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Attorney Docket No. 09812.1796 SONY Ref. No.: S09P1860US00

ASSIGNMENT

WHEREAS, I, as below named inventors, residing at the addresses stated next to our names, am a sole inventor (if only one name is listed below) or a joint inventor (if plural names are listed below) of certain new and useful improvements in

IMAGE PROCESSING APPARATUS, IMAGE PROCESSING METHOD, AND PROGRAM

for which application for Letters Patent of the United States of America was executed by me on the date indicated next to my name and address;

AND WHEREAS, SONY CORPORATION, a Japanese corporation, with offices at 1-7-1 Konan, Minato-ku, Tokyo, Japan (hereinafter referred to as ASSIGNEE) is desirous of acquiring all interest in, to and under said invention, said application disclosing the invention and in, to and under any Letters Patent or similar legal protection which may be granted therefor in the United States and in any and all foreign countries;

NOW THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I, as a sole or joint inventor as indicated below, by these presents do hereby assign, sell and transfer unto the said ASSIGNEE, its successors, assigns, and legal representatives, the entire right, title and interest in the said invention, said application, including any divisions and continuations thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said invention, and in and to any and all priority rights and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and to any other benefits accruing or to accrue to me with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, and I hereby authorize and request the Commissioner of Patents to issue the said United States Letters Patent to said ASSIGNEE, as the assignee of the whole right, title and interest thereto;

And I further agree to execute all necessary or desirable and lawful future documents, including assignments in favor of ASSIGNEE or its designee, as ASSIGNEE or its successors, assigns and legal representatives may from time-to-time present to me and without further remuneration, in order to perfect title in said invention, modifications, and improvements in said invention, applications and Letters Patent of the United States and countries foreign thereto;

And I further agree to properly execute and deliver and without further remuneration, such necessary or desirable and lawful papers for application for foreign patents, for filing subdivisions of said application for patent, and or, for obtaining any reissue or reissues of any Letters patent which may be granted for my aforesaid invention, as the ASSIGNEE thereof shall hereafter require and prepare at its own expense;

And I further agree that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to me and will testify as to the same in any interference or litigation related thereto;

And I hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

And I hereby authorize and request my attorney(s) of record in	this application to insert the serial number and filing date of this application
the spaces that follow: Serial Number: 12/613,899	Filing Date: November 6, 2009
This assignment executed on the dates indicated below.	
YUYU LIU	
Name of first or sole inventor	Execution date of U.S. Patent Application
TOKYO JAPAN	The second of th
Residence of First or sole inventor	
Tuly lin	Jan 1, 2010
Signature of (irst or sole inventor	Date of this assignment
KEISUKE YAMAOKA	
Name of second inventor	Execution date of U.S. Patent Application
TOKYO JAPAN	Execution date of e.s. I dent ripplication
Residence of second inventor	
Signature of second inventor	Date of this assignment
TAKAYUKI YOSHIGAHARA	
Name of third inventor	Execution date of U.S. Patent Application
TOKYO JAPAN	2. Country date of C.B. I atom repprounds
Residence of third inventor	
Signature of third inventor	Date of this assignment

1

ADDITIONAL INVENTOR(S)

XI CHEN	
Name of fourth inventor	Execution date of U.S. Patent Application
Zhejiang Province P.R.China	Tr
Residence of fourth inventor	
Signature of fourth inventor	Date of this assignment
Name of fifth inventor	Execution date of U.S. Patent Application
Residence of fifth inventor	
Signature of fifth inventor	Date of this assignment
Name of sixth inventor	Execution date of U.S. Patent Application
Residence of sixth inventor	
Signature of sixth inventor	Date of this assignment
Name of seventh inventor	Execution date of U.S. Patent Application
Residence of seventh inventor	
Signature of seventh inventor	Date of this assignment
Name of eighth inventor	Execution date of U.S. Patent Application
Residence of eighth inventor	
Signature of eighth inventor	Date of this assignment
Name of ninth inventor	Execution date of U.S. Patent Application
Residence of ninth inventor	
Signature of ninth inventor	Date of this assignment

2

Attorney Docket No. 09812.1796 SONY Ref. No.: S09P1860US00

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WHEREAS, I, as below named inventors, residing at the addresses stated next to our names, am a sole inventor (if only one name is listed below) or a joint inventor (if plural names are listed below) of certain new and useful improvements in

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NOW THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I, as a sole or joint inventor as indicated below, by these presents do hereby assign, sell and transfer unto the said ASSIGNEE, its successors, assigns, and legal representatives, the entire right, title and interest in the said invention, said application, including any divisions and continuations thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said invention, and in and to any and all priority rights and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and to any other benefits accruing or to accrue to me with respect to the filling of applications for patents or securing of patents in the United States and countries foreign thereto, and I hereby authorize and request the Commissioner of Patents to issue the said United States Letters Patent to said ASSIGNEE, as the assignce of the whole right, title and interest thereto;

And I further agree to execute all necessary or desirable and lawful future documents, including assignments in favor of ASSIGNEE or its designee, as ASSIGNEE or its successors, assigns and legal representatives may from time-to-time present to me and without further remuneration, in order to perfect title in said invention, modifications, and improvements in said invention, applications and Letters Patent of the United States and countries foreign thereto;

And I further agree to properly execute and deliver and without further remuneration, such necessary or desirable and lawful papers for application for foreign patents, for filing subdivisions of said application for patent, and or, for obtaining any reissue or reissues of any Letters patent which may be granted for my aforesaid invention, as the ASSIGNEE thereof shall hereafter require and prepare at its own expense;

And I further agree that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to me and will testify as to the same in any interference or litigation related thereto;

And I hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

And I hereby authorize and request my attorney(s) of record in the spaces that follow: Serial Number:	n this application to insert the serial number and filing date of this application in, Filing Date:
This assignment executed on the dates indicated below.	
YUYU LIU	
Name of first or sole inventor	Execution date of U.S. Patent Application
TOKYO JAPAN	FF
Residence of First or sole inventor	
Signature of first or sole inventor	Date of this assignment
KEISUKE YAMAOKA	
Name of second inventor	Execution date of U.S. Patent Application
TOKYO JAPAN	TI
Residence of second inventor	
Keisuko Jamasko	Dec. 15.2009
Signature of second inventor	Date of this assignment
TAKAYUKI YOSHIGAHARA	
Name of third inventor	Execution date of U.S. Patent Application
TOKYO JAPAN	TF
Residence of third inventor	
Kipaught loshunahala Signature of hird inventor	December 15, 7009
Signature of third inventor	Date of this assignment

ADDITIONAL INVENTOR(S)

XI CHEN	
Name of fourth inventor Zhejiang Province P.R.China	Execution date of U.S. Patent Application
Residence of fourth inventor	
	Jan 9 2010
Signature of fourth inventor	Date of this assignment
Name of fifth inventor	Execution date of U.S. Patent Application
Residence of fifth inventor	
Signature of fifth inventor	Date of this assignment
Name of sixth inventor	Execution date of U.S. Patent Application
Residence of sixth inventor	
Signature of sixth inventor	Date of this assignment
Name of seventh inventor	Execution date of U.S. Patent Application
Residence of seventh inventor	
Signature of seventh inventor	Date of this assignment
Name of eighth inventor	Execution date of U.S. Patent Application
Residence of eighth inventor	
Signature of eighth inventor	Date of this assignment
Name of ninth inventor	Execution date of U.S. Patent Application
Residence of ninth inventor	
Signature of ninth inventor	Date of this assignment

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PATENT REEL: 023826 FRAME: 0692

RECORDED: 01/21/2010