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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2901508

I CONVEYING PARTY DATA Name Execution Date HARUNAGA HIWATARI 05/28/2014 TORU AKISHITA 05/28/2014 ODS/28/2014 TORU AKISHITA 05/28/2014 Name CORECIVING PARTY DATA Name SONY CORPORATION Street Address: 1-7-1 KONAN, MINATO-KU City: TOKYO State/Country: JAPAN Postal Code: 108-0075 CORRESPONDENCE DATA Fax Number: (703)413-2220 CORRESPONDENCE DATA Fax Number: (703)413-2200 CORRESPONDENCE DATA Fax Number: (703)413-2200 Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail. Phone: (703)413-2200 Correspondence will be sent to the e-mail address	SUBMISSION TYPE: NATURE OF CONVEYANCE:		NEW ASSIGNMENT	
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SIGNATURE: /Liz Rodriguez/	TTORNEY DOCKET NUMBER:		435693US8PCT	
	NAME OF SUBMITTER	:	LIZ RODRIGUEZ	
DATE SIGNED: 06/17/2014				
	SIGNATURE:		/Liz Rodriguez/	
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Attorney Docket No.: Sony Ref. No.: SP344732US00

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE

Title of Invention	ARITHMETIC OPERATION DEVICE, CONTROL METHOD, AND PROGRAM				
As the below	As the below named inventor, I hereby declare that:				
This declaration is directed to:	The extended overline on				
	United States application or PCT international application number PCT/JP2013/053651 filed on _2013/02/15				
The above-ide	entified application was made or authorized to be made by me.				
WHEREAS,	am the original inventor or an original joint inventor of a claimed invention in the application. SONY CORPORATION , with offices at				
acquiring all i	NAN, MINATO-KU, TOKYO, 108-0075, JAPAN (hereinafter referred to as ASSIGNEE), is desirous of nterest in, to and under said invention, said application disclosing the invention and in, to and under any Letters Patent or similar on which may be granted therefor in the United States and in any and all foreign countries;				
of which are legal represen in and to any any and all pr Convention R adheres, and t United States	EFORE, in consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency hereby acknowledged, I by these presents do hereby assign, sell and transfer unto said ASSIGNEE, its successors, assigns, and tatives, the entire right, title and interest in said invention, said application, including any divisions and continuations thereof, and and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said invention, and in and to iority rights and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-American elating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America o any other benefits accruing or to accrue to me with respect to the filing of applications for patents or securing of patents in the and countries foreign thereto; and I hereby authorize and request the Commissioner of Patents to issue said United States Letters ASSIGNEE, as the assignee of the whole right, title and interest thereto;				
designce, as remuneration,	agree to execute all necessary or desirable and lawful future documents, including assignments in favor of ASSIGNEE or its ASSIGNEE or its successors, assigns and legal representatives may from time-to-time present to me and without further in order to perfect title in said invention, modifications, and improvements in said invention, applications and Letters Patent of ites and countries foreign thereto;				
application fo	agree to properly execute and deliver and without further remuneration, such necessary or desirable and lawful papers for r foreign patents, for filing subdivisions of said application for patent, and or, for obtaining any reissue or reissues of any Letters may be granted for my aforesaid invention, as said ASSIGNEE thereof shall hereafter require and prepare at its own expense;				
application, s	agree that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said aid invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to me and will be same in any interference or litigation related thereto;				
And I hereby this assignme	covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with nt and sale.				
1 hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.					
LEGAL NAN	1E OF INVENTOR				
Inventor:	HARUNAGA HIWATARI Date: May 28, 2014				
Signature: _	Hanumaga Himpton				

Attorney Docket No.: Sony Ref. No.: SP344732US00

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE

Title of Invention ARITHMETIC OPERATION DEVICE, CONTROL METHOD, AND PROGRAM				
As the below named inventor, I hereby declare that:				
This declaration I The attached application, or I The attached application, or				
United States application or PCT international application number PCT/JP2013/053651 filed on 2013/02/15				
The above-identified application was made or authorized to be made by me.				
1 believe that I am the original inventor or an original joint inventor of a claimed invention in the application. WHEREAS, SONY CORPORATION, with offices at				
<u>1-7-1 KONAN, MINATO-KU, TOKYO, 108-0075, JAPAN</u> (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 by these presents do hereby assign, sell and transfer unto said ASSIGNEE, its successors, assigns, and legal representatives, the entire right, title and interest in 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 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 said ASSIGNEE thereof shall hereafter require and prepare at its own expense;				
And 1 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.				
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.				
LEGAL NAME OF INVENTOR				
Inventor: TORUAKISHITA Date: May 30, 2014				
Signature: <u>Jorn akishita</u>				

RECORDED: 06/17/2014