PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
TAKASHI MORIE	12/11/2020
MASATOSHI YAMAGUCHI	12/10/2020
HAKARU TAMUKOH	12/11/2020

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:	17258309

CORRESPONDENCE DATA

Fax Number: (414)277-0656

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Address Line 2: SUITE 2500

Address Line 4: MILWAUKEE, WISCONSIN 53202

ATTORNEY DOCKET NUMBER:	880001-6575-US01
NAME OF SUBMITTER:	CHRISTOPHER M. TOBIN
SIGNATURE:	/Christopher M. Tobin/
DATE SIGNED:	01/06/2021
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 3

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PATENT 506435945 REEL: 054830 FRAME: 0206

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PATENT REEL: 054830 FRAME: 0207

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 LOGIC UNIT, MULTIPLY-ACCUMULATE OPERATION DEVICE, MULTIPLY-ACCUMULATE OPERATION CIRCUIT, AND MULTIPLY-ACCUMULATE OPERATION SYSTEM
Docket Number	SYP328649US01
As the below named in	ventor, I hereby declare that:
This declaration is directed to:	The attached application, or
	United States application or PCT international application number PCT/JP2019/026835 filed on filed on
The above-identified a	oplication was made or authorized to be made by me.
I believe that I am the	original inventor or an original joint inventor of a claimed invention in the application.
	that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine more than five (5) years, or both.
WHEREAS,	Sony Corporation
hereinafter referred to a 1-7-1 KONAN, MINATO	ns "ASSIGNEE") having a place of business at: -KU, TOKYO, JAPAN
desires to acquire the application;	entire right, title and interest in said invention and the above-identified United States patent
acknowledged, I herel identified United State and reissues, extension in countries foreign to	EFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby by assign to the ASSIGNEE, the entire right, title and interest in said invention and in the aboves patent application and in all divisions, continuations and continuations-in-part of said application, as and renewals of Letters Patent granted thereon, and in all corresponding patent applications filed the United States ("foreign countries") and corresponding international patent applications, and in any such patent applications in the United States and foreign countries;
own name and the rig	n to the ASSIGNEE the right to file patent applications in foreign countries on said invention in its that to claim priority to the above-identified United States patent application under the terms of the on and any other relevant treaties;
foreign countries to is interest in and to the	orize and request the United States Patent & Trademark Office and officials in patent offices in sue any and all of said Letters Patent to the ASSIGNEE as the assignee of my entire right, title and he same, for the sole use and behoof of the ASSIGNEE, its successors, assigns, and legal full end of the term for which said Letters Patent may be granted; and
respecting said inventic continuation-in-part, s Letters Patent to be is:	e that, without further consideration, I will communicate to the ASSIGNEE any facts known to me on, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, abstitute, renewal and reissue applications, execute all necessary assignment papers to cause said sued to the ASSIGNEE, make all rightful oaths, and, perform all lawful acts to aid the ASSIGNEE, ans, to obtain and enforce Letters Patent for said invention in the United States and foreign countries.
LEGAL NAME OF	INVENTOR
Inventor: Takashi MC	Date: Dec. 11 , 2020
Signature: / Ta	kashi Morie/

PATENT REEL: 054830 FRAME: 0208

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 Invent	ARITHMETIC LOGIC UNIT, MULTIPLY-ACCUMULATE OPERATION DEVICE, MULTIPLY-ACCUMULATE OPERATION CIRCUIT, AND MULTIPLY-ACCUMULATE OPERATION SYSTEM
Docket Numbe	Y SYP328649US01
As the below nar	ned inventor, I hereby declare that:
This declaration	☐ The attached application, or
is directed to:	United States application or PCT international application number PCT/JP2019/026835 filed on05 July 2019
The above-identi	fied application was made or authorized to be made by me.
I believe that I ar	n the original inventor or an original joint inventor of a claimed invention in the application.
•	ledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine of not more than five (5) years, or both.
WHER	EAS, Sony Corporation
	ed to as "ASSIGNEE") having a place of business at: NATO-KU, TOKYO, JAPAN
desires to acqui application;	re the entire right, title and interest in said invention and the above-identified United States patent
acknowledged, I identified United and reissues, ext in countries fore	THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby hereby assign to the ASSIGNEE, the entire right, title and interest in said invention and in the above-States patent application and in all divisions, continuations and continuations-in-part of said application, ensions and renewals of Letters Patent granted thereon, and in all corresponding patent applications filed ign to the United States ("foreign countries") and corresponding international patent applications, and in a sissuing on any such patent applications in the United States and foreign countries;
I hereby	assign to the ASSIGNEE the right to file patent applications in foreign countries on said invention in its the right to claim priority to the above-identified United States patent application under the terms of the invention and any other relevant treaties;
foreign countrie interest in and	authorize and request the United States Patent & Trademark Office and officials in patent offices in s to issue any and all of said Letters Patent to the ASSIGNEE as the assignee of my entire right, title and to the same, for the sole use and behoof of the ASSIGNEE, its successors, assigns, and legal to the full end of the term for which said Letters Patent may be granted; and
respecting said is continuation-in-p Letters Patent to	I agree that, without further consideration, I will communicate to the ASSIGNEE any facts known to me nvention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, eart, substitute, renewal and reissue applications, execute all necessary assignment papers to cause said be issued to the ASSIGNEE, make all rightful oaths, and, perform all lawful acts to aid the ASSIGNEE, d assigns, to obtain and enforce Letters Patent for said invention in the United States and foreign countries.
LEGAL NAMI	E OF INVENTOR
7	
masa Masa	toshi YAMAGUCHI Date: 2020/12/10
Signature: /Mas	atoshi Yamaguchi/

PATENT REEL: 054830 FRAME: 0209

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 LOGIC UNIT, MULTIPLY-ACCUMULATE OPERATION DEVICE, MULTIPLY-ACCUMULATE OPERATION CIRCUIT, AND MULTIPLY-ACCUMULATE OPERATION SYSTEM
Docket Number	SYP328649US01
As the below named in	ventor, I hereby declare that:
This declaration	The attached application, or
is directed to:	United States application or PCT international application number PCT/JP2019/026835 filed on 05 July 2019
The above-identified a	pplication was made or authorized to be made by me.
I believe that I am the	original inventor or an original joint inventor of a claimed invention in the application.
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.	
WHEREAS,	Sony Corporation
hereinafter referred to a 1-7-1 KONAN, MINATO	as "ASSIGNEE") having a place of business at: -KU, TOKYO, JAPAN
desires to acquire the application;	entire right, title and interest in said invention and the above-identified United States patent
NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I hereby assign to the ASSIGNEE, the entire right, title and interest in said invention and in the above-identified United States patent application and in all divisions, continuations and continuations-in-part of said application, and reissues, extensions and renewals of Letters Patent granted thereon, and in all corresponding patent applications filed in countries foreign to the United States ("foreign countries") and corresponding international patent applications, and in all Letters Patents issuing on any such patent applications in the United States and foreign countries;	
I hereby assign to the ASSIGNEE the right to file patent applications in foreign countries on said invention in its own name and the right to claim priority to the above-identified United States patent application under the terms of the International Convention and any other relevant treaties;	
I hereby authorize and request the United States Patent & Trademark Office and officials in patent offices in foreign countries to issue any and all of said Letters Patent to the ASSIGNEE as the assignee of my entire right, title and interest in and to the same, for the sole use and behoof of the ASSIGNEE, its successors, assigns, and legal representatives, to the full end of the term for which said Letters Patent may be granted; and	
Further, I agree that, without further consideration, I will communicate to the ASSIGNEE any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, continuation-in-part, substitute, renewal and reissue applications, execute all necessary assignment papers to cause said Letters Patent to be issued to the ASSIGNEE, make all rightful oaths, and, perform all lawful acts to aid the ASSIGNEE, its successors and assigns, to obtain and enforce Letters Patent for said invention in the United States and foreign countries.	
LEGAL NAME OF	INVENTOR
Inventor: Hakaru TAI	MUKOH Date: Dec. 11, 2020
Signature: / Hakam Tamukoh/	

PATENT REEL: 054830 FRAME: 0210

RECORDED: 01/06/2021