

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT6982607

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
MASASHI HATTORI	10/20/2021
KENICHI SHIMOMAI	10/18/2021
YOSUKE ONDA	10/18/2021
RECEIVING PARTY DATA	
Name:	TAIYO YUDEN CO., LTD.
Street Address:	7-19 KYOBASHI 2-CHOME, CHUO-KU
City:	TOKYO
State/Country:	JAPAN
Postal Code:	104-0031
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	17605543
CORRESPONDENCE DATA	
Fax Number:	(240)238-2825
<i>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.</i>	
Phone:	408-753-1130
Email:	patents@cyiplaw.com
Correspondent Name:	MASAO YOSHIMURA, CHEN YOSHIMURA LLP
Address Line 1:	5201 GREAT AMERICA PARKWAY
Address Line 2:	SUITE 320
Address Line 4:	SANTA CLARA, CALIFORNIA 95054
ATTORNEY DOCKET NUMBER:	86462.20TYS006PUS
NAME OF SUBMITTER:	MAIKO KUWADA
SIGNATURE:	/Maiko Kuwada/
DATE SIGNED:	10/21/2021
This document serves as an Oath/Declaration (37 CFR 1.63).	
Total Attachments: 4	
source=20TYS006PUS_Combined-DeclarationAssignment#page1.tif	
source=20TYS006PUS_Combined-DeclarationAssignment#page2.tif	

source=20TYS006PUS_Combined-DeclarationAssignment#page3.tif

source=20TYS006PUS_Combined-DeclarationAssignment#page4.tif

**COMBINED DECLARATION AND ASSIGNMENT
FOR UTILITY APPLICATION**

**Title of
Invention**

**ARITHMETIC DEVICE, ARITHMETIC METHOD, AND GAS
DETECTION SYSTEM**

DECLARATION

As a below named inventor, I/we hereby declare that:

This declaration
is directed to:

☐ The attached application, or

☒ United States application or PCT international application
number PCT/JP2020/016840 filed on April 17, 2020.

The above-identified application was made or authorized to be made by me/us.

I/we have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to above.

I/we acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me/us to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT International filing date of the continuation-in-part application.

I/we believe that I am/we are the original inventor(s) or original joint inventor(s) of a claimed invention in the application.

I/we 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.

ASSIGNMENT

WHEREAS, TAIYO YUDEN CO., LTD., a corporation of Japan, whose post office address is 7-19 Kyobashi 2-chome, Chuo-ku, Tokyo, 104-0031, Japan, (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention, the application for United States Letters Patent on this invention and the Letters Patent to issue upon this application;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I/WE have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof; and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration,

communicate with Assignee, its successors and assigns, any facts known to ME/US respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

AND, I/WE HEREBY authorize and request the attorneys I/WE have empowered in the Power of Attorney in this application, to insert here in parenthesis (Application No. _____, filed _____) the filing date and application number of said application when known.

IN TESTIMONY WHEREOF, I/WE have hereunto set our hand(s).

Legal Name of Sole or First Inventor Masashi HATTORI	
Signature <i>Masashi Hattori</i>	Date <i>Oct. 20. 2021</i>
Legal Name of Second Inventor Kenichi SHIMOMAI	
Signature	Date
Legal Name of Third Inventor Yosuke ONDA	
Signature <i>Yosuke Onda</i>	Date <i>Oct. 18. 2021</i>

**COMBINED DECLARATION AND ASSIGNMENT
FOR UTILITY APPLICATION**

**Title of
Invention**

**ARITHMETIC DEVICE, ARITHMETIC METHOD, AND GAS
DETECTION SYSTEM**

DECLARATION

As a below named inventor, I/we hereby declare that:

This declaration
is directed to:

☐ The attached application, or

☒ United States application or PCT international application
number PCT/JP2020/016840 filed on April 17, 2020.

The above-identified application was made or authorized to be made by me/us.

I/we have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to above.

I/we acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me/us to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT International filing date of the continuation-in-part application.

I/we believe that I am/we are the original inventor(s) or original joint inventor(s) of a claimed invention in the application.

I/we 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.

ASSIGNMENT

WHEREAS, TAIYO YUDEN CO., LTD., a corporation of Japan, whose post office address is 7-19 Kyobashi 2-chome, Chuo-ku, Tokyo, 104-0031, Japan, (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention, the application for United States Letters Patent on this invention and the Letters Patent to issue upon this application;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I/WE have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof; and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration,

communicate with Assignee, its successors and assigns, any facts known to ME/US respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

AND, I/WE HEREBY authorize and request the attorneys I/WE have empowered in the Power of Attorney in this application, to insert here in parenthesis (Application No. _____, filed _____) the filing date and application number of said application when known.

IN TESTIMONY WHEREOF, I/WE have hereunto set our hand(s).

Legal Name of Sole or First Inventor Masashi HATTORI	
Signature	Date
Legal Name of Second Inventor Kenichi SHIMOMAI	
Signature <i>Kenichi Shimomai</i>	Date <i>October 18, 2021</i>
Legal Name of Third Inventor Yosuke ONDA	
Signature	Date