507253732 04/27/2022

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:		NEW ASSIGNMENT			
NATURE OF CONVEYANCE:		ASSIGNMENT			
CONVEYING PARTY D	ΑΤΑ				
			Name	Execution Date	
HIROYASU KONDO				04/26/2022	
YUKIHIRO FUKUTA				04/21/2022	
KAZUMITSU MORIMOTO04/26/2022					
MAKOTO HAYASHI				04/26/2022	
RECEIVING PARTY DA	TA				
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City:	YOKOHAMA-SHI, KANAGAWA				
State/Country:	JAPAN				
PROPERTY NUMBERS	Total: 1				
Property Type			Number]	
Application Number:		17660	0861		
]	
CORRESPONDENCE D	ΑΤΑ				
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ATTORNEY DOCKET NUMBER: 762_024			762_024		
NAME OF SUBMITTER:			ELIZABETH CORREA-STRAUSS		
VAIME OF SUBMITTER.					

DATE SIGNED: 04/27/2022				
	This document serves as an Oath/Declaration (37 CFR 1.63).			
Total Attachments: 6				
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source=Declaration-Assignment#page2.	tif			
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DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET, AND ASSIGNMENT					
Title of Invention: 発明の名称:	SCINTILLATOR ARRAY, METHOD FOR MANUFACTURING SCINTILLATOR ARRAY, RADIATION DETECTOR, AND RADIATION INSPECTION DEVICE				
INSPECTION DEVICE As the below named inventor, I hereby declare that: This declaration is directed to: [x] The attached application, or [] United States application or PCT International Application Number PCT/JP2020/042172 filed on November 12, 2020. The above identified application 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. ASSIGNMENT: In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does		 私は、以下に記名された発明者として、ここに下記の通り宣言する: 本宣言は以下に対するものである: [x] 添付出願書または [] <u>2020年11月12日</u>の目に出願された米国出願番号またはPCT国際出願番号 <u>PCT/JP2020/042172</u>の出願書。 上記の特定の出願は私または私の承認によって行われたものである。 私は出願書において特許請求している発明の最初の発明者または最初の共同発明者であると信じている。 私は本宣喜における故意の虚偽の記載は米国法典第18 編第1001条に基づき、罰金または五(5)年以下の懲役、もしくはその両方によって処罰されることがあることを承認する。 譲渡証: 各々の署名人に対して支払われた総額1ドル(\$1.00)および他の適切な有価約因を考慮して、本署名人(5)は、 			
Name of Assignee: 譲受人の名前: Address of Assignee: 譲受人のアドレス:		Kabushiki Kaisha Toshiba 1-1, Shibaura 1-Chome Minato-Ku, Tokyo Japan			
Name of Assignee:		Toshiba Materials Co., Ltd. 8, Shinsugita-Cho, Isogo-Ku Yokohama-Shi, Kanagawa Japan			

(hereinafter designated as the Assignee) the entire right, title and interest for the United States, its territories, dependencies and possessions, in the invention, and all applications for patent and any Letters Patent which may be granted therefor for which the undersigned have executed an application for patent in the United States of America.	(以下、譲受人と称する)に対して、譲渡に同意し、 本発明および特許のための全ての出願、署名人がア メリカ合衆国において特許出願を行い付与された全 ての特許証における、アメリカ合衆国ならびにその 領土、属領、財産のための全ての権利、所有権、お よび利権を譲受人に移転および譲渡する。
Legal Name of Inventor/Assignor: <u>Hiroyasu KON</u> 発明者/譲渡人の氏名 Inventor/Assignor (発明者/譲渡人): <u>りiroya</u> Date (日付): <u>Aprí 26</u> , 222	sn kondo
Legal Name of Inventor/Assignor: <u>Yukihiro FUKU</u> 発明者/譲渡人の氏名 Inventor/Assignor (発明者/譲渡人): Date (日付):	
Legal Name of Inventor/Assignor: <u>Kazumitsu MO</u> 発明者/譲渡人の氏名 Inventor/Assignor (発明者/譲渡人): <u>(名子にいう</u> Date (日付): <u>(April 26</u> , 2022	
Legal Name of Inventor/Assignor: <u>Makoto HAYA</u> 発明者/譲渡人の氏名 Inventor/Assignor (発明者/譲渡人): <u>Makota</u> Date (日付): <u>April 26, 2022</u>	z Hayashi

Under the Paperwork Reduction Act of 1995,		

<u></u>	BSTITUTE STATEMENT IN I OR DESIGN PATENT APP			
Title of Invention	SCINTILLATOR ARRAY, M ARRAY, RADIATION DETE		· · · · · · · · · · · · · · · · · · ·	
his stateme	ent is directed to:			
The att	ached application,			
OR				
United	States application or PCT international	application number	filed on _	
EGAL NA	ME of inventor to whom this sul	bstitute statement applie	S	
	Name (first and middle (if any)) and F	amily Name or Surname)		
esidence (except for a deceased or legally incapa	acitated inventor):		
_{ity} Yok	ohama-Shi	State Kanagawa	Japan	
	ss (except for a deceased or legally incapa			
c/o Tosh	iba Materials Co., Ltd., 8, Sh	insugita-Cho, Isogo-K	u	
_{ty} Yok	ohama-Shi	_{State} Kanagawa	235-0032	_{Country} Japan
believe the	ohama-Shi above-named inventor or joint inventor plication.		Zip	Country •
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believe the in the ap he above-i hereby acl imprison	above-named inventor or joint inventor plication. dentified application was made or auth mowledge that any willful false stateme	or to be the original inventor o norized to be made by me. ent made in this statement is r both.	Zip r an original joint inventor	of a claimed inventio
believe the in the ap he above-i hereby acl imprison Relationsh	above-named inventor or joint inventor plication. dentified application was made or auth mowledge that any willful false stateme ment of not more than five (5) years, o	or to be the original inventor o norized to be made by me. ent made in this statement is r both.	Zip r an original joint inventor punishable under 18 U.S.	of a claimed inventio
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comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. nan san cilar

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PATENT REEL: 059748 FRAME: 0304

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SUBSTITUTE STATEMENT						
Circumstances permitting execution of this substit	ute statement:					
Inventor is deceased,						
Inventor is under legal incapacity,						
Inventor cannot be found or reached afte	r diligent effort, or					
Inventor has refused to execute the oath	or declaration under 37 CF	R 1.63.				
If there are joint inventors, please check the appro	opriate box below:					
An application data sheet under 37 CFR or is currently submitted.	1.76 (PTO/AIA/14 or equiv	alent) naming the enti	re inventive entity has been			
OR						
Statement Supplemental Sheet (PTO/AI.	An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) has not been submitted. Thus, a Substitute Statement Supplemental Sheet (PTO/AIA/11 or equivalent) naming the entire inventive entity and providing inventor information is attached. See 37 CFR 1.64(b).					
	WARNING:					
Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.						
			4/21/2022			
Name: Teruo KINOSHITA			Date (Optional):			
/ <i>Teruo KINOSHITA/</i> Signature:						
APPLICANT NAME AND TITLE OF PERSON EXE						
If the applicant is a juristic entity, list the applicant n	······································	ner				
KABUSHIKI KAISHA TO Applicant Name	SHIDA					
Title of Person Executing This Substitute Statement: General Manager, Intellectual Property Division The signer, whose title is supplied above, is authorized to act on behalf of the applicant.						
Residence of the signer (unless provided in an			ent).			
City	State	Country				
Mailing Address of the signer (unless provided	in an application data sn	eet, PTO/AIA/14 of e	quivaient)			
City Sta	***************************************	Zip	Country			
Note: Use an additional PTO/AIA/02 form for each inventor who is deceased, legally incapacitated, cannot be found or reached after diligent effort, or has refused to execute the oath or declaration under 37 CFR 1.63.						
[Page 2 of 2]						

PATENT REEL: 059748 FRAME: 0305

SUBSTITUTE STATEMENT IN LIEU OF AN OATH OR DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (35 U.S.C. 115(d) AND 37 CFR 1.64) Title of Invention SCINTILLATOR ARRAY, METHOD FOR MANUFACTURING SCINTILLATOR ARRAY, RADIATION DETECTOR, AND RADIATION INSPECTION DEVICE This statement is directed to: Image: The attached application, OR Image: The attached application or PCT international application number filed on LEGAL NAME of inventor to whom this substitute statement applies: (E.g., Given Name (first and middle (if any)) and Family Name or Surname) Yukihiro FUKUTA Residence (except for a deceased or legally incapacitated inventor): Country Japan OR State Mailing Address (except for a deceased or legally incapacitated inventor): Country Japan Mailing Address (except for a deceased or legally incapacitated inventor): Conshiba Materials Co., Ltd., 8, Shinsugita-Cho, Isogo-Ku	Under	the Paperwork Reduction Act of 1995, no person		int and Trademark Office; U.S. DE				
Invention ARRAY, RADIATION DETECTOR, AND RADIATION INSPECTION DEVICE This statement is directed to: This statement is directed to: The attached application. OR United States application or PCT international application numberfiled on (E.g., Given Name (first and middle (if any)) and Family Name or Surname) LEGAL NAME of inventor to whom this substitute statement applies: (E.g., Given Name (first and middle (if any)) and Family Name or Surname) Yukhiro FUKUTA Residence (except for a deceased or legally incapacitated inventor): City Yokohama-Shi State Kanagawa Country Japan Mailing Address (except for a deceased or legally incapacitated inventor): City Yokohama-Shi State Kanagawa Country Japan I believe the above-named inventor or joint inventor to be the original inventor or an original joint inventor of a claimed inventor I believe the above-named inventor or joint inventor to be the original inventor or an original joint inventor of a claimed inventor I believe the above-named inventor or joint inventor to be the original inventor or an original joint inventor of a claimed inventor I believe the above-named inventor or joint inventor to be the original inventor or an original joint inventor of a claimed inventor I hereby acknowledge that any wilful false statement made in this statement is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. Relationship to the inventor to whom this substitute statement applies: Legal Representative (for deceased or legally incapacitated inventor or), Assignee, Person who otherwise shows a sufficient proprietary interest in the matter (pelition under 37 CFR 1.46 is required), or joint inventor.	A CONTRACTOR OF	SUBSTITUTE STATEMENT IN LIEU OF AN OATH OR DECLARATION FOR UTILITY						
The attached application. OR United States application or PCT international application number								
OR	This stateme	int is directed to:						
United States application or PCT international application number	The att	ached application,						
LEGAL NAME of inventor to whom this substitute statement applies: (E.g., Given Name (first and middle (if any)) and Family Name or Surname) Yukihiro FUKUTA Residence (except for a deceased or legally incapacitated inventor): City Yokohama-Shi State Kanagawa Mailing Address (except for a deceased or legally incapacitated inventor): c/ty Yokohama-Shi State Kanagawa Zip 235-0032 Country Japan City Yokohama-Shi State Kanagawa Zip 235-0032 Country Japan City Yokohama-Shi State Kanagawa Zip 235-0032 Country Japan I believe the above-named inventor or joint inventor to be the original inventor or an original joint inventor of a claimed invention in the application. The above-identified application was made or authorized to be made by me. I hereby acknowledge that any willful false statement made in this statement is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. Relationship to the inventor to whom this substitute statement applies: Legal Representative (for deceas	OR							
(E.g., Given Name (first and middle (if anyl)) and Family Name or Surname) Yukihiro FUKUTA Residence (except for a deceased or legally incapacitated inventor): City Okohama-Shi State Kanagawa Country Japan Mailing Address (except for a deceased or legally incapacitated inventor): Country Co Toshiba Materials Co., Ltd., 8, Shinsugita-Cho, Isogo-Ku City Yokohama-Shi State Kanagawa Zip 235-0032 Country Japan I believe the above-named inventor or joint inventor to be the original inventor or an original joint inventor of a claimed invention in the application. The above-identified application was made or authorized to be made by me. I hereby acknowledge that any willful false statement made in this statement is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (6) years, or both. Relationship to the inventor to whom this substitute statement applies: Legal Representative (for deceased or legally incapacitated inventor only), Assignee, Person to whom the inventor is under an obligation to assign, Person to whom the inventor is under an obligation to assign, Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), o	United S	States application or PCT international	application number	filed on				
Yukihiro FUKUTA Residence (except for a deceased or legally incapacitated inventor): City Yokohama-Shi Kanagawa Japan Mailing Address (except for a deceased or legally incapacitated inventor): c/untry Japan Mailing Address (except for a deceased or legally incapacitated inventor): c/untry Japan Country Japan Country Japan Mailing Address (except for a deceased or legally incapacitated inventor): c/o Toshiba Materials Co., Ltd., 8, Shinsugita-Cho, Isogo-Ku City Yokohama-Shi State Kanagawa 210, 235-0032 Country Japan I believe the above-named inventor or joint inventor to be the original inventor or an original joint inventor of a claimed invention in the application. I I I I I I I I I I I I I I	LEGAL NA	ME of inventor to whom this sul	ostitute statement applic	·s:				
Residence (except for a deceased or legally incapacitated inventor): City Country Japan Mailing Address (except for a deceased or legally incapacitated inventor): C/O Toshiba Materials Co., Ltd., 8, Shinsugita-Cho, Isogo-Ku City Yokohama-Shi State Kanagawa 20 235-0032 Country Japan I believe the above-named inventor or joint inventor to be the original inventor or an original joint inventor of a claimed invention in the application. I believe the above-identified application was made or authorized to be made by me. I hereby acknowledge that any willful false statement made in this statement is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. Relationship to the inventor to whom this substitute statement applies: Legal Representative (for deceased or legally incapacitated inventor only), Assignee, Person to whom the inventor is under an obligation to assign, Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or Joint Inventor.			amily Name or Surname)					
Yokohama-Shi Kanagawa Japan Mailing Address (except for a deceased or legally incapacitated inventor): c/o Toshiba Materials Co., Ltd., 8, Shinsugita-Cho, Isogo-Ku City Yokohama-Shi Kanagawa 235-0032 country Japan City Yokohama-Shi State Kanagawa 235-0032 country Japan I believe the above-named inventor or joint inventor to be the original inventor or an original joint inventor of a claimed invention in the application. I believe the above-named inventor or joint inventor to be the original inventor or an original joint inventor of a claimed invention in the application. The above-identified application was made or authorized to be made by me. I hereby acknowledge that any willful false statement made in this statement is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. Relationship to the inventor to whom this substitute statement applies: Legal Representative (for deceased or legally incapacitated inventor only), Assignee, Person to whom the inventor is under an obligation to assign, Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or joint Inventor.			with the dimension					
Mailing Address (except for a deceased or legally incapacitated inventor): c/o Toshiba Materials Co., Ltd., 8, Shinsugita-Cho, Isogo-Ku City Yokohama-Shi State Kanagawa Zip 235-0032 Country Japan I believe the above-named inventor or joint inventor to be the original inventor or an original joint inventor of a claimed invention in the application. The above-identified application was made or authorized to be made by me. I hereby acknowledge that any willful false statement made in this statement is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. Relationship to the inventor to whom this substitute statement applies: Legal Representative (for deceased or legally incapacitated inventor only), Assignee, Person to whom the inventor is under an obligation to assign, Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or Joint Inventor.				lanan				
c/o Toshiba Materials Co., Ltd., 8, Shinsugita-Cho, Isogo-Ku City Yokohama-Shi State Kanagawa 235-0032 Country Japan I believe the above-named inventor or joint inventor to be the original inventor or an original joint inventor of a claimed invention in the application. I believe the above-named inventor or joint inventor to be the original inventor or an original joint inventor of a claimed invention in the application. The above-identified application was made or authorized to be made by me. I hereby acknowledge that any willful false statement made in this statement is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. Relationship to the inventor to whom this substitute statement applies:	_{City} YOK	onama-Sni	State Kanagawa	Japan Japan				
I believe the above-named inventor or joint inventor to be the original inventor or an original joint inventor of a claimed invention in the application. The above-identified application was made or authorized to be made by me. I hereby acknowledge that any willful false statement made in this statement is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. Relationship to the inventor to whom this substitute statement applies: Legal Representative (for deceased or legally incapacitated inventor only), Assignee, Person to whom the inventor is under an obligation to assign, Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or Joint Inventor.		, , , , , , , , , , , , , , , , , , , ,		<u>ĩu</u>				
in the application. The above-identified application was made or authorized to be made by me. I hereby acknowledge that any willful false statement made in this statement is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. Relationship to the inventor to whom this substitute statement applies: Legal Representative (for deceased or legally incapacitated inventor only), Assignee, Person to whom the inventor is under an obligation to assign, Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or Joint Inventor.	_{city} Yok	ohama-Shi	_{state} Kanagawa	235-0032	_{Country} Japan			
I hereby acknowledge that any willful false statement made in this statement is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. Relationship to the inventor to whom this substitute statement applies: Legal Representative (for deceased or legally incapacitated inventor only). Assignee, Person to whom the inventor is under an obligation to assign, Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or Joint Inventor.								
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 Legal Representative (for deceased or legally incapacitated inventor only), Assignee, Person to whom the inventor is under an obligation to assign, Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or Joint Inventor. 	l hereby ack imprisonr	nowledge that any willful false statems nent of not more than five (5) years, o	ant made in this statement is r both.	punishable under 18 U.S.	C. 1001 by fine or			
Assignee, Person to whom the inventor is under an obligation to assign, Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or Joint Inventor.	Relationshi	p to the inventor to whom this substitu	te statement applies:					
Person to whom the inventor is under an obligation to assign, Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or Joint Inventor.	Legal Representative (for deceased or legally incapacitated inventor only),							
Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or Joint Inventor.	hum	Assignee,						
Joint Inventor.	k							
[Page 1 of 2]	tunud punug							
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This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the complete application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Bix 1450, Alexandria, VA 22313-1450, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS SEND TO: Commissioner for Palents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 and s

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Inventor is under legal incapacity,				
Inventor cannot be found or reached at	tter diligent effort, o	r		
inventor has refused to execute the oa	th or declaration ur	der 37 CFR 1.63.		
If there are joint inventors, please check the app	propriate box below	:		
An application data sheet under 37 CF or is currently submitted.	R 1.76 (PTO/AIA/1	4 or equivalent) naming the e	ntire inventive enlity has been	
OR				
An application data sheet under 37 CF Statement Supplemental Sheet (PTO// information is attached. See 37 CFR 1	AIA/11 or equivaler	4 or equivalent) has not been () naming the entire inventive	n submitted. Thus, a Substitute entity and providing inventor	
	WARNING	\$.	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
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_{Name:} Katsuaki AOKI			Date (Optional):	
Signature: Hatuch APPLICANT NAME AND TITLE OF PERSON E If the applicant is a juristic entity, list the applicant	XECUTING THIS S			
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