## 506208878 08/18/2020

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6255618

UBMISSION TYPE:		NEW ASSIGNMENT	
IATURE OF CONVE	YANCE:	ASSIGNMENT	
CONVEYING PART	Υ DATA		
		Name Ex	xecution Date
TAKESHI YAMAMO	ТО	07/	/31/2020
SOYA ARAKI		08/	/07/2020
YOSHINORI TACHII	KAWA	08/	/06/2020
OHEI AZUMA		08/	/03/2020
OICHIRO ESHITA		08/	/06/2020
	ΖΑΤΑ		
Name:		CORPORATION	
Street Address:	1-7-1 k	KONAN, MINATO-KU	
City:	ΤΟΚΥ	0	
State/Country:	JAPAN		
State/Country: Postal Code: PROPERTY NUMB	108-00	75	
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## 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	DISPLAY DEVICE
As the below	named inventor. I hereby declare that:
This declarati	The attached analysis or
	United States application or PCT international application number PCT/JP2018/039678 filed on
The above-id	entified application was made or authorized to be made by me.
WHEREAS,	I am the original inventor or an original joint inventor of a claimed invention in the application. SONY CORPORATION, with offices at
<u>1-7-1 KC</u>	NAN, MINATO-KU, TOKYO, 108-0075, JAPAN (hereinafter referred to as ASSIGNEE), is desirous of
	interest 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 aud all foreign countries;
legal represent in and to any any and all pr Convention F adheres, and United States Patent to said	hereby acknowledged. I by these presents do hereby assign, sell and transfer unto said ASSIGNEE, its successors, assigns, and tratives, 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 riority rights and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-American Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America to any other benefits accruing or to accrue to me with respect to the filting 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;
designee, 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 ates and countries foreign thereto;
application for	r agree to properly execute and deliver and without further remumeration, such necessary or desirable and lawful papers for or 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	r 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 assignment	covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with nt and sale.
	nowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of 1 five (3) years, or both.
LEGAL NAM	ME OF INVENTOR
Inventor:	TAKESHI YAMAMOTO Date: July 131. 2020
Signature	TAKESHI TAMAMOTO

1-7-1 KONAN, MINATO-KU, TOKYO, 108-0075, JAPAN       (hereinafter referred to as ASSIGNEE), is desirous acquiring all interest in, to and under said invention, said application disclosing the invention and in, to and under any Letters Patent or simil 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 sufficient of which are hereby acknowledged. 1 by these presents do hereby asknowledge, and up these presents do hereby asknowledge, and any and all foreign thereto, which may be granted for said invention, and in and any and all letters Patent of the United States, and countries foreign thereto, which may be granted for said invention, and in and any and all to any and all toters patent of the United States, and countries foreign thereto, which may be granted for said invention in fight under the International Convention for Potection of Industrial Property, Inter-Americ Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of Americ adheres, and to any other benefits accruing or to accrue to me with respect to the filing of aptents to issue said United States Lette Patent to said ASSIGNEE, as the assignee of the whele right, tille and interest thereto;         And 1 further agree to execute all necessary or desirable and lawful future documents, including assignments in favor of ASSIGNEE or it designee, as ASSIGNEE or it said invention, modifications, and improvements in said invention, applications and countries foreign thereto;         And 1 further agree to execute all deliver and without further remuneration, such necessary or desirable and alayful future for uptare to esirable and lawful papers f application for foreign patents, for f	Title of Invention	DISPLAY DEVICE
is directed to:	As the below	I
filed on		The attacked and Reation on
I believe that J am the original inventor or an original joint inventor of a claimed invention in the application.         WHEREASSONY CORPORATION		
WHEREAS.       SONY CORPORATION       with offices         1-71 KONAN, MINATO-KU, TOKYO, 108-0075, JAPAN       (hereinafter referred to as ASSIGNEE), is desirous:         acquiring all interest in, to and under said invention, said application disclosing the invention and in, to and under any Letters Patent or simil 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 (\$1.60), and other good and valuable consideration, the receipt and sufficient of which are hereby acknowledged, I by these presents do hereby assign, sell and transfer unto said ASSIGNEE, its successors, assigns, as legal representatives, the entire right, title and interest in said invention, said application, including any divisions and continuations thereof, at 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 any and all priority rights and/or convention rights under the International Convention of the fusitor of Industrial Property. Inter-America Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America 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 said United States Lette Patent of the wole right, title and interest thereto;         And 1 further agree to execute all necessary or desirable and lawful future documents, including assignments in favor of ASSIGNEE or it successors, assigns and legal representatives may from time-to-time present to me and without furthe remuneration, such mece	The above-id	entified application was made or authorized to be made by me.
NOW THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt and sufficient of which are horeby acknowledged, I by these presents do hereby assign, sell and transfer unto said ASSIGNEE, its successors, assigns, and legal representatives, the entire right, tifle and interest in said avotatives foreign thereto, which may be granted for said invention, and in and any and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said invention, and in and any and all priority rights and/or convention rights under the International Convention of the Protection of Industrial Property. Inter-America Convention Relating to Patents, Dosigns and Industrial Models, and any other international agreements to which the United States of Americ adheres, and to any other benefits accruing or to accrue to me with respect to the filing of applications for patents or securities of the whole right, title and interest the Commissioner of Patents to issue said United States Lette Patent to said ASSIGNEE, as the assignee of the whole right, title and interest thereto; And 1 further agree to execute all necessary or desirable and lawful future documents, including assignments in favor of ASSIGNEE or i designee, as ASSIGNEE or to successors, assigns and legal representatives may from time-to-time present to me and without furth remuneration, in order to perfect title in said invention, amodifications, and improvements in said invention, applications and Letters Patent 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 Lette Patent which may be granted for my aforesaid invention, as aid ASSIGNEE thereof shall hereafter require and prepare at its own expense; And I furth	WHEREAS, <u>1-7-1 KC</u> acquiring all	SONY CORPORATION
designee, as ASSIGNEE or its successors, assigns and legal representatives may from time-to-time present to me and without furth remuneration, in order to perfect title in said invention, modifications, and improvements in said invention, applications and Letters Patent 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 f application for foreign patents, for filing subdivisions of said application for patent, and or, for obtaining any reissue or reissues of any Lette Patent which may be granted for my aforesaid invention, as said 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 sa application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to me and w testify as to the same in any interference or Inigation 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 withis assignment and sale.         I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by line or imprisonment not more than five (5) years, or both.         LEGAL NAME OF INVENTOR       Date: <u>August 7, 2020</u> Inventor: <u>SOYA ARAKI</u> Date: <u>August 7, 2020</u>	of which are legal represent in and to any any and all p Convention f adheres, and United States	hereby acknowledged. I by these presents do hereby assign, sell and transfer unto said ASSIGNEE, its successors, assigns, and natives, 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 riority rights and/or convention rights under the International Convention for the Protection of Industrial Property. Inter-American Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America 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 and countries foreign thereto, and I hereby authorize and request the Commissioner of Patents to issue said United States Letters
application for foreign patents, for filing subdivisions of said application for patent, and or, for obtaining any reissue or reissues of any Lette Patent which may be granted for my aforesaid invention, as said 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 sa application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to me and w testify as to the same in any interference or fitigation 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 wi 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 line or imprisonment not more than five (5) years, or both. LEGAL NAME OF INVENTOR Inventor: <u>SOYA ARAKI</u> Date: <u>August 7, 2020</u>	designee, as remuneration	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
application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to me and w 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 withis 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 not more than five (5) years, or both. LEGAL NAME OF INVENTOR Inventor: <u>SOYA ARAKI</u> Date: <u>August 7, 2020</u>	application for	or foreign patents, for filing subdivisions of said application for patent, and or, for obtaining any reissue or reissues of any Letters
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not more than five (5) years, or both. LEGAL NAME OF INVENTOR Inventor: <u>SOYA ARAKI</u> Date: <u>August 7, 2020</u>	a ang ing ing ing ing ing ing ing ing ing i	
Inventor: SOYA ARAKI Date: August 7 2020		
	LEGAL NAI	
	Inventor:	SOYA ARAKI Date: August 7, 2020 SOYA ARAKI

Invention	DISPLAY DEVICE
As the below	named inventor. I hereby declare that
This declarati is directed to:	The other and isotian as
	United States application or PCT international application number PCT/JP2018/039678 filed on 2018/10/25
The above-id	entified application was made or authorized to be made by me.
WHEREAS,	I am the original inventor or an original joint inventor of a claimed invention in the application. SONY CORPORATION , with offices a
equiring all	DNAN, MINATO-KU, TOKYO, 108-0075, JAPAN (hereinafter referred to as ASSIGNEE), is desirous of interest 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 egal represer n and to any my and all pr Convention F otheres, and United States	EFORE, in consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt and sufficienc hereby acknowledged. I by these presents do hereby assign, sell and transfer unto said ASSIGNEE, its successors, assigns, an ntatives, the entire right, title and interest in said invention, said application, including any divisions and continuations thereof, an and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said invention, and in and it riority rights and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-America Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of Americ to any other benefits accruing or to accrue to me with respect to the filing of applications for patents or securing of patents in th
atent to said	s and countries foreign thereto, and I hereby authorize and request the Commissioner of Patents to issue said United States Letter ASSIGNEE, as the assignce of the whole right, title and interest thereto;
And I further lesignee, as emuneration	s and countries foreign thereto, and I hereby authorize and request the Commissioner of Patents to issue said United States Letter I ASSIGNEE, as the assignee of the whole right, title and interest thereto; r agree to execute all necessary or desirable and lawful future documents, including assignments in favor of ASSIGNEE or it ASSIGNEE or its successors, assigns and legal representatives may from time-to-time present to me and without furthe
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And 1 further lesignee, as emuneration he United St And 1 furthe upplication fi Patent which And 1 furthe upplication, s estify as to th And 1 hereby	and countries foreign thereto, and I hereby authorize and request the Commissioner of Patents to issue said United States Letter ASSIGNEE, as the assignee of the whole right, title and interest thereto; r agree to execute all necessary or desirable and lawful future documents, including assignments in favor of ASSIGNEE or it 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 ates and countries foreign thereto; r agree to properly execute and deliver and without further remuneration, such necessary or desirable and lawful papers for or foreign patents, for filing subdivisions of said application for patent, and or, for obtaining any reissue or reissues of any Letter may be granted for my aforesaid invention, as said ASSIGNEE thereof shall hereafter require and prepare at its own expense; r agree that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to me and with the same in any interference or lingation related thereto;
And I further lesignee, as remuneration the United St And I furthe application fo Patent which And I furthe application, s lestify as to th And I hereby this assignme I hereby ackr	and countries foreign thereto, and I hereby authorize and request the Commissioner of Patents to issue said United States Letter ASSIGNEE, as the assignee of the whole right, title and interest thereto; r agree to execute all necessary or desirable and lawful future documents, including assignments in favor of ASSIGNEE or it 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 c ates and countries foreign thereto; r agree to properly execute and deliver and without further remuneration, such necessary or desirable and lawful papers for or foreign patents, for filing subdivisions of said application for patent, and or, for obtaining any reissue or reissues of any Letter may be granted for my aforesaid invention, as said ASSIGNEE thereof shall hereafter require and prepare at its own expense; r agree that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to me and with e same in any interference or lingation related thereto;

As the below named inventor, 1 hereby declare that: This declaration is directed to: Dutied States application or PCT international application number PCT/IP2018/039678 filed on _2018/10/25 The above-identified application was made or authorized to be made by me. Helieve that 1 am the original inventor or an original joint inventor of a claimed invention in the application. WHERERAS, GONY CORPORATION	Invention	ISPLAY DEVICE
is directed to:	As the below r	ed inventor. I hereby declare that:
filed on       2018/10/25         The above-identified application was made or authorized to be made by me.         1 believe that 1 am the original inventor or an original joint inventor of a claimed invention in the application.         WHEREAS,       SONY CORPORATION         (arc)       (bereinafter referred to as ASSIGNEE), is desirous a acquiring all interest in, to and under said invention, said application disclosing the invention and in, to and under any Letters Patent or simila 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 sufficience of which are hereby acknowledged. I by these presents do hereby assign, self and transfer untus aid ASSIGNEE is successor, assigns, an legal representatives, the entire right, little and interest in said invention, said application, including any divisions and continuations thereof, an 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 s any and all foreign; or in asticle on the linterational Convention for the Protection of Industrial Property, Inter-America Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of the whole right, tille and interest thereto:         And 1 further agree to execute all necessary or desirable and lawful future documents, including assignments in favor of ASIGNEE or in designer, as ASSIGNEE, is ASSIGNEE, is asside and lawful future documents, is add invention, applications and letters Patent of the United States and countries foreign thereto.         And		The attached application, or
I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. WHEREAS, SONY CORPORATION		
WHEREAS, SONY CORPORATION , with offices a 1-7-1 KONAN, MINATO-KU, TOKYO, 108-0075, 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 sufficience of which are hereby acknowledged. I by these presents do hereby assign, sell and transfer unto said ASSIGNEE, its successors, assigns, an legal protection value and all priority rights and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-America Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of Americ adheres, and to any other henefits 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 1 hereby authorize and request the Commissioner of Patents to issue said United States Letter Patent to said ASSIGNEE, as the assignee of the whole right, title and interest thereto: And 1 further agree to execute all necessary or desirable and lawful future documents, including assignments in favor of ASSIGNEE are the the United States and countries foreign thereto, and 1 hereby authorize and improvements in said invention, applications and Letters Patent or the United States and countries foreign thereto. And 1 further agree to execute all necessary or desirable and lawful future documents, including assignments in favor of ASSIGNEE are the the United States and countries foreign thereto. And 1 further agree to properly execute and deliver and without further remumeration, such incessary or desirable and lawful papers for ap	The above-ide	led application was made or authorized to be made by me.
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	application, sa testify as to the And I hereby o	enant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict wi

	As the below named in This declaration is directed to: The above-identified an believe that I am the c WHEREAS, <u>SONY</u> <u>1-7-1 KONAN, N</u> icquiring all interest in egal protection which NOW THEREFORE, i of which are hereby ac egal protection which NOW THEREFORE, i of which are hereby ac egal representatives, th n and to any and all L my and all priority rigg Convention Relating to dheres, and to any oth Jnited States and count Patent to said ASSIGN enumeration, in order he United States and c And I further agree to And I further agree to	ventor, I hereby declare that:
This declaration is directed to:	This declaration s directed to: The above-identified at believe that 1 am the t WHEREAS, <u>SONY</u> <u>1-7-1 KONAN, N</u> requiring all interest in egal protection which NOW THEREFORE, i of which are hereby at egal representatives, th and to any and all 1. my and all priority right Convention Relating to induces, and to any oth Jnited States and count Patent to said ASSIGN enumeration, in order he United States and c	The attached application, or United States application or PCT international application number PCT/JP2018/039678 filed on 2018/10/25 polication was made or authorized to be made by me. riginal inventor or an original joint inventor of a claimed invention in the application. CORPORATION , with offices a MINATO-KU, TOKYO, 108-0075, JAPAN (hereinafter referred to as ASSIGNEE), is desirous of No and under said invention, said application disclosing the invention and in, to and under any Letters Patent or simila may be granted therefor in the United States and in any and all foreign countries; n consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt and sufficience knowledged. I by these presents do hereby assign, sell and transfer unto said ASSIGNEE, its successors, assigns, an ise entire right, title and interest in said invention, solid application, including any divisions and continuations thereof, an eters Patent of the United States, and countries foreign thereto, which may be granted for said invention, and in and it us and/or convention rights under the International Convention of the Protection of Industrial Property, Inter-America Patents, Designs and Industrial Models, and any other international agreements to which the United States of Americ er benefits accruing or to accrue to me with respect to the filing of applications for patents to issue said United States Letter EE, as the assignee of the whole right, title and interest thereto;
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filed on       2018/10/25         The above-identified application was made or authorized to be made by me.         believe that 1 am the original inventor or an original joint inventor of a claimed invention in the application.         WIRERAS, SONY CORPORATION	believe that I am the of WHEREAS, <u>SONN</u> 1-7-1 KONAN, M requiring all interest in egal protection which NOW THEREFORE, i of which are hereby at egal representatives, if n and to any and all 1, my and all priority rigg convention Relating to idheres, and to any oth builted States and count Patent to said ASSIGN And I further agree to he United States and c	filed on 2018/10/25 pplication was made or authorized to be made by me. priginal inventor or an original joint inventor of a claimed invention in the application. <u>CORPORATION</u> , with offices a <u>AINATO-KU, TOKYO, 108-0075, JAPAN</u> (hereinafter referred to as ASSIGNEE), is desirous of to and under said invention, said application disclosing the invention and in, to and under any Letters Patent or simila may be granted therefor in the United States and in any and all foreign countries; an consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt and sufficience knowledged, 1 by these presents do hereby assign, sell and transfer unto said ASSIGNEE, its successors, assigns, an e entire right, title and interest in said invention, said application, including any divisions and continuations thereof, an eters Patent of the United States, and countries foreign thereto, which may be granted for said invention, and in and it us and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-America Patents, Designs and Industrial Models, and any other international agreements to which the United States of Americ er benefits accruing or to accrue to me with respect to the filing of applications for patents or securing of patents in the tries foreign thereto, and 1 hereby authorize and request the Commissioner of Patents to issue said United States Letter EE, as the assignee of the whole right, title and interest thereto;
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Inventor: YOICHIROESHITA Date: A 434ert 6, 2020	.EGAL NAME OF IN	VENTOR
	aventor YOIC	IIROESHITA Date: August, 6, 2020

**RECORDED: 08/18/2020**