### PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4055825

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
TAKURO USHIDA	09/05/2016
TSUKASA KAMAKURA	09/05/2016
HIROSHI ASHIHARA	09/05/2016
KIMIHIKO NAKATANI	09/05/2016

#### **RECEIVING PARTY DATA**

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State/Country:	JAPAN	
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### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	15267390

#### **CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER:	HITACHI13-0000794US01
NAME OF SUBMITTER:	DANIEL N. CALDER
SIGNATURE:	/Daniel N. Calder/
DATE SIGNED:	09/16/2016
	•

**Total Attachments: 6** 

**PATENT REEL: 039766 FRAME: 0378** 

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PATENT REEL: 039766 FRAME: 0379

### ASSIGNMENT AND DECLARATION

With respect to the invention titled

# METHOD OF MANUFACTURING SEMICONDUCTOR DEVICE, SUBSTRATE PROCESSING APPARATUS, AND RECORDING MEDIUM

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for which the undersig	gned has authorized or prepared an application for United
States Letters Patent, U	J.S. Patent Application No, filed on,
I (the undersigne	d) hereby state the following.
	DECLARATION
The above-identif	fied 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	e application.
I have reviewe	d and understand the contents of the above-identified
application, including tl	ne claims.
I acknowledge	the duty to disclose information which is material to
patentability as defined	in Title 37, Code of Federal Regulations § 1.56.
_	edge that any willful false statement made in this declaration U.S.C. 1001 by fine or imprisonment of not more than 5 years,
or both.	
	A CONCADATOR TO
The undersigned	ASSIGNMENT hereby authorizes assignee or assignee's representative to
	Number and the filing date of this application if they are
	execution of this assignment.
unknown at the time of	CACCUMON OF WINS ASSIGNMENT.
Assignee	HITACHI KOKUSAI ELECTRIC INC.
Assignee State or Country of Incorporation	Japan
Assignee Address	14-1, Sotokanda 4-chome, Chiyoda-ku, Tokyo 1018980, Japan
Transfire Living 699	

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Assignee is desirous of acquiring the entire right, title and interest in the invention, all applications for and all letters patent issued on the invention.

For good and valuable consideration, the receipt and sufficiency of which is acknowledged, the undersigned, intending to be legally bound, does hereby sell, assign and transfer to the assignee and assignee's successors, assigns and legal representatives the entire right, title and interest in the invention and all patent applications thereon, including, but not limited to, the application for United States Letters Patent entitled as above, and all divisions and continuations thereof, and in all letters patent, including all reissues and reexaminations thereof, throughout the world, including the right to claim priority under the Paris Convention or other treaty.

It is agreed that the undersigned shall be legally bound, upon request of the assignee, to supply all information and evidence relating to the making and practice of the invention, to testify in any legal proceeding relating thereto, to execute all instruments proper to patent the invention throughout the world for the benefit of the assignee, and to execute all instruments proper to carry out the intent of this instrument.

The undersigned warrants that the rights and property herein conveyed are free and clear of any encumbrance.

AND this Assignment may be executed in multiple counterparts, each of which shall be deemed to be an original of this Assignment. Additionally, the undersigned hereby authorizes our attorneys to collect the signature pages of each executed counterpart and to attach those signature pages to a single copy of this instrument, which single copy and attached signature pages together shall constitute an original of this Assignment.

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# SIGNATURE SHEET FOR DECLARATION AND ASSIGNMENT

Inventor's Name	USHIDA, Takuro
Inventor's Signature	USHIDA, Takuro September 5, 2016
Date	September 5, 2016
Signed at	Toyama-shi, Japan
-	(City and Country)
STATEME	NT OF WITNESS (optional):
	Ι,
	Name of Witness
was persor	nally present and did seeUSHIDA, Takuro
	inventor identified above
execute thi	is Assignment on and such Assignor is personally known date
to me to be	the person described herein.
Witness Signature	
must accomp	on data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, any this form. Use a separate form for each inventor; or check the box below and complete page(s) to list additional inventors.

\* Additional inventors are being named on the 3 supplemental sheet(s) attached hereto.

# SUPPLEMENTAL SHEET FOR DECLARATION AND ASSIGNMENT

Inventor's Name	KAMAKURA, Tsukasa	
Inventor's Signature	- Tukasa	Lomakira
Date	- Geptember 3	, 2016
Signed at	Toyama-shi, Japan	
	(City and Country)	
STATEM	ENT OF WITNESS (option	nal):
	Ι,	
		Name of Witness
was perso	onally present and did see	KAMAKURA, Tsukasa
		inventor identified above
execute th	his Assignment on d	and such Assignor is personally known
to me to b	pe the person described herei	n.
Witness Signature		

## SUPPLEMENTAL SHEET FOR DECLARATION AND ASSIGNMENT

Inventor's Name	ASHIHARA, Hiroshi	
Inventor's Signature	Hiroshi ashibara September 5, 2016	
Date	September 5, 2016	
Signed at	Toyama-shi, Japan	
	(City and Country)	
STATEM	MENT OF WITNESS (optional):	
	I,	
	Name of Witness	_
was pers	sonally present and did see ASHIHARA, Hiroshi	-
	inventor identified above	
execute t	this Assignment on and such Assignor is personally known	wn
to me to	be the person described herein.	
Witness Signature		

## SUPPLEMENTAL SHEET FOR DECLARATION AND ASSIGNMENT

Inventor's Name	NAKATANI, Kimihiko	
Inventor's Signature	Nakatuni, Kimihiko	
Date	September 5, 2016	
Signed at	Toyama-shi, Japan	
•	(City and Country)	
STATEME	ENT OF WITNESS (optio	nal):
	Ι,	
		Name of Witness
was person	nally present and did see	NAKATANI, Kimihiko
		inventor identified above
execute th	is Assignment on	and such Assignor is personally known
to me to be	the person described here	in.
Witness Signature		