PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2807377

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
TAKAAKI NODA	04/02/2014
SATOSHI SHIMAMOTO	03/27/2014
SHINGO NOHARA	03/31/2014
YOSHIRO HIROSE	03/27/2014
KIYOHIKO MAEDA	04/01/2014

RECEIVING PARTY DATA

Name:	Hitachi Kokusai Electric Inc.
Street Address:	14-1, Sotokanda 4-chome
Internal Address:	Chiyoda-ku
City:	Tokyo
State/Country:	JAPAN
Postal Code:	1018980

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14227809

CORRESPONDENCE DATA

Fax Number: (215)568-6499

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US Mail.

Phone: 215-568-6400 **Email:** jheuer@vklaw.com

Correspondent Name: VOLPE AND KOENIG, P.C. **Address Line 1:** 30 SOUTH 17TH STREET

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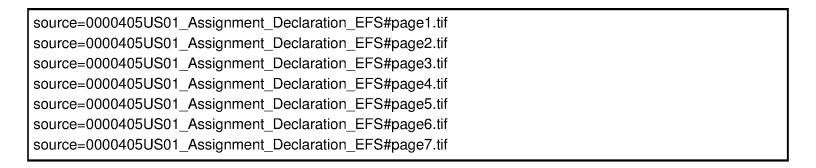
Address Line 4: PHILADELPHIA, PENNSYLVANIA 19103

ATTORNEY DOCKET NUMBER:	HITACHI13-0000405US01
NAME OF SUBMITTER:	DANIEL N. CALDER
SIGNATURE:	/Daniel N. Calder/
DATE SIGNED:	04/09/2014

Total Attachments: 7

REEL: 032637 FRAME: 0588

PATENT



PATENT REEL: 032637 FRAME: 0589

ASSIGNMENT AND DECLARATION

With respect to the invention titled

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

for	whi	ch the	undersig	ned ha	as auth	orized or	prepare	d an	application	for	United
Sta	ites	Letters	Patent,	U.S.	Patent	Application	on No.	14/22	7,809		, filed
on.	Marc	h 27, 20	14								

I (the undersigned) hereby state the following.

DECLARATION

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 have reviewed and understand the contents of the above-identified application, including the claims.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations § 1.56.

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 5 years, or both.

ASSIGNMENT

The undersigned hereby authorizes assignee or assignee's representative to insert the Application Number and the filing date of this application if they are unknown at the time of execution of this assignment.

Assignee	HITACHI KOKUSAI ELECTRIC INC.

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Atty. Docket No. HITACHI13-0000405US01

Assignee State or Country of Incorporation

Japan

Assignee Address

14-1, Sotokanda 4-chome, Chiyoda-ku, Tokyo 1018980, Japan

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	, NODA, Takaaki
Inventor's Signature	hoda Takaaki
Date	April 2, 2014
Signed at	Toyama-shi, Japan
	(City and Country)
STATEM	ENT OF WITNESS (optional):
	Ι,
	Name of Witness
was perso	onally present and did see NODA, Takaaki
	inventor identified above
execute t	his Assignment on and such Assignor is personally known date
to me to b	be the person described herein.
Witness Signature	
must accor	tion data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, appany this form. Use a separate form for each inventor; or check the box below and the attached page(s) to list additional inventors.

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■ Additional inventors are being named on the _4_ supplemental sheet(s) attached hereto.

Inventor's Name	SHIMAMOTO, Satoshi
Inventor's Signature	Shinamoto, Satoshi
Date	March 27 2014
Signed at	Toyama-shi, Japan
•	(City and Country)
STATEMI	ENT OF WITNESS (optional):
	· I,
	Name of Witness
was perso	nally present and did see SHIMAMOTO, Satoshi
	inventor identified above
execute th	nis Assignment on and such Assignor is personally know date
to me to b	e the person described herein.
Witness Signature	

Inventor's Name	NOHARA, Shingo	
Inventor's Signature	Nohara Shingo March 31, 2014	
Date	March 31, 2014	
Signed at	Toyama-shi, Japan	
	(City and Country)	
STATEM	ENT OF WITNESS (optional):	
	Ι,	
	Name of Witness	
was perso	onally present and did see NOHARA, Shinge	
	inventor identified above	
execute tl	his Assignment on and such Assignor is personally know	71
to me to b	e the person described herein.	
Witness Signature		

Inventor's Name	HIROSE, Yeshiro	
Inventor's Signature	Hirose, tosh	ira
Date	Morch 27.	20/4
Signed at	Toyama-shi, Japan	
•	(City and Country)	
STATEME	ENT OF WITNESS (option	onal):
	Ι,	
		Name of Witness
was perso	nally present and did see	HIROSE, Yoshiro
		inventor identified above
execute th	is Assignment on	and such Assignor is personally knowr date
to me to be	e the person described here	ein.
Witness		

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Inventor's Name	MAEDA, Kiyohiko		
Inventor's Signature	Mada, Kipoliif	0	
Date	April 1st 20	214	
Signed at	Toyama-shi, Japan		
	(City and Country)		
STATEM	ENT OF WITNESS (option	onal):	
	I,		
		Name of Witness	
was perso	onally present and did see	MAEDA, Kiyohiko	
		inventor identified above	
execute th	his Assignment on	and such Assignor is personally knowlate	WI
to me to b	pe the person described her	ein.	
Witness			

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PATENT REEL: 032637 FRAME: 0596