504151978 12/22/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 EPAS ID: PAT4198651 Stylesheet Version v1.2

SUBMISSION TYPE: NEW ASSIGNMENT NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
YUGO ORIHASHI	12/12/2016
ATSUSHI MORIYA	12/12/2016

RECEIVING PARTY DATA

Name:	HITACHI KOKUSAI ELECTRIC INC	
Street Address:	15-12, NISHI-SHIMBASHI 2-CHOME	
Internal Address:	MINATO-KU	
City:	TOKYO	
State/Country:	P/Country: JAPAN	
Postal Code: 105-8039		

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15386994

CORRESPONDENCE DATA

Fax Number: (215)568-6499

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Email: Ihennessey@vklaw.com **Correspondent Name:** VOLPE AND KOENIG, P.C.

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ATTORNEY DOCKET NUMBER: HITACHI13-001417US01 NAME OF SUBMITTER: GERALD B. HALT, JR. SIGNATURE: /Gerald B. Halt, Jr./ **DATE SIGNED:** 12/22/2016

Total Attachments: 4

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PATENT REEL: 040754 FRAME: 0399 504151978

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PATENT REEL: 040754 FRAME: 0400

ASSIGNMENT AND DECLARATION

With respect to the invention titled

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

for which the undersig	ned has authorized or prepared an application for United			
States Letters Patent,	U.S. Patent Application No, filed on,			
I (the undersign	ed) hereby state the following.			
	DECLARATION			
The above-identi	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 th	e application.			
I have reviewe	d and understand the contents of the above-identified			
application, including t	he 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 b	ooth.			
	4 2222 222 222 222 222			
The undersigned	ASSIGNMENT I hereby authorizes assignee or assignee's representative to			
	Number and the filing date of this application if they are			
	f execution of this assignment.			
dikilowii at bile time o	execution of this assignment.			
Assignee	HITACHI KOKUSAI ELECTRIC INC.			
Assignee State or Country of Incorporation	Japan			
Assignee Address	15-12, Nishi-shimbashi 2-chome, Minato-ku			

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Tokyo 1058039, Japan

PATENT REEL: 040754 FRAME: 0401 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.

SIGNATURE SHEET FOR DECLARATION AND ASSIGNMENT

Inventor's Signature	Inventor's Name	ORIHASHI, Yugo	
Signed at Toyama-shi, Japan (City and Country) STATEMENT OF WITNESS (optional): I, Name of Witness was personally present and did see ORIHASHI, Yugo inventor identified above execute this Assignment on and such Assignor is personally known date to me to be the person described herein. Witness		Orihoshi, Zu	90
(City and Country) STATEMENT OF WITNESS (optional): I, Name of Witness was personally present and did see ORIHASHI, Yugo inventor identified above execute this Assignment on and such Assignor is personally known date to me to be the person described herein. Witness	Date	December, 12	2016
STATEMENT OF WITNESS (optional): I, Name of Witness was personally present and did see ORIHASHI, Yugo inventor identified above execute this Assignment on and such Assignor is personally known date to me to be the person described herein. Witness	Signed at	Toyama-shi, Japan	
was personally present and did see ORIHASHI, Yugo inventor identified above execute this Assignment on and such Assignor is personally known date to me to be the person described herein. Witness		(City and Country)	
was personally present and did see ORIHASHI, Yugo inventor identified above execute this Assignment on and such Assignor is personally known date to me to be the person described herein. Witness	STATEM	ENT OF WITNESS (opt	ional):
was personally present and did see ORIHASHI, Yugo inventor identified above execute this Assignment on and such Assignor is personally known date to me to be the person described herein. Witness		I,	
execute this Assignment on and such Assignor is personally known date to me to be the person described herein. Witness		-	Name of Witness
execute this Assignment on and such Assignor is personally known date to me to be the person described herein. Witness	was pers	onally present and did see	ORIHASHI, Yugo
date to me to be the person described herein. Witness			inventor identified above
to me to be the person described herein. Witness	execute t	his Assignment on	known
Witness			date
	to me to	be the person described he	erein.
An application data sheet (PTO/SB/14 or equivalent), including naming the entire invention entity, must accompany this form. Use a separate form for each inventor; or check the box behand complete the attached page(s) to list additional inventors.	entity, mu	st accompany this form. Use a	separate form for each inventor; or check the box below

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Additional inventors are being named on the 1 supplemental sheet(s) attached hereto.

SUPPLEMENTAL SHEET FOR DECLARATION AND ASSIGNMENT

Inventor's Name	MORIYA, Atsushi	
Inventor's Signature	Moriza Atsushi	<u>)</u>
Date	Dec. 12, 2016	<u> </u>
Signed at	Toyama-shi, Japan	
•	(City and Country)	
STATEM	ENT OF WITNESS (opti	onal):
	Ι,	
		Name of Witness
was perso	onally present and did see	
		inventor identified above
		and such Assignor is personally known
	α	ate
to me to b	e the person described her	ein.
Witness Signature		