PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Tokunobu Akao	09/26/2011
Unryu Ogawa	09/26/2011
Masahisa Okuno	09/26/2011
Shinji Yashima	09/26/2011
Atsushi Umekawa	09/26/2011
Kaichiro Minami	09/26/2011

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:	13239902	

CORRESPONDENCE DATA

Fax Number: (215)568-6499 Phone: 215-568-6400 Email: jheuer@vklaw.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

via US Mail.

Correspondent Name: Volpe and Koenig, P.C. Address Line 1: 30 S. 17th Street United Plaza Address Line 2:

Address Line 4: Philadelphia, PENNSYLVANIA 19103

PATENT

REEL: 027250 FRAME: 0294

ATTORNEY DOCKET NUMBER:	HITACHI13-21010164US01	
NAME OF SUBMITTER:	Daniel N. Calder	
Total Attachments: 7 source=21010164US01_Assignment_EFS#page1.tif source=21010164US01_Assignment_EFS#page2.tif source=21010164US01_Assignment_EFS#page3.tif source=21010164US01_Assignment_EFS#page4.tif source=21010164US01_Assignment_EFS#page5.tif source=21010164US01_Assignment_EFS#page6.tif source=21010164US01_Assignment_EFS#page7.tif		

PATENT REEL: 027250 FRAME: 0295

ASSIGNMENT

AKAO, Tokunobu, residing at 1, Yasuuchi 2-chome, Yatsuo-machi, Toyama-shi, TOYAMA 9392393, Japan, a citizen of Japan; OGAWA, Unryu, residing at 1, Yasuuchi 2-chome, Yatsuo-machi, Toyama-shi, TOYAMA 9392393, Japan, a citizen of Japan; OKUNO, Masahisa, residing at 1, Yasuuchi 2-chome, Yatsuo-machi, Toyama-shi, TOYAMA 9392393, Japan, a citizen of Japan; YASHIMA, Shinji, residing at 1, Yasuuchi 2-chome, Yatsuo-machi, Toyama-shi, TOYAMA 9392393, Japan, a citizen of Japan; UMEKAWA, Atsushi, residing at 1, Yasuuchi 2-chome, Yatsuo-machi, Toyama-shi, TOYAMA 9392393, Japan, a citizen of Japan and MINAMI, Kaichiro, residing at 1, Yasuuchi 2-chome, Yatsuo-machi, Toyama-shi, TOYAMA 9392393, Japan, a citizen of Japan (hereafter jointly and severally referred to as the undersigned), are the inventors of

SUBSTRATE PROCESSING APPARATUS AND METHOD OF MANUFACTURING A SEMICONDUCTOR DEVICE

_for which the undersigned have executed an application for United States Letters Patent, U.S. Patent Application No. 13/239,902, filed _______ , 20 11.

The undersigned hereby authorize 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.

HITACHI KOKUSAI ELECTRIC INC., a corporation, having a principal place of business at 14-1. Sotokanda 4-chome. Chiyoda-ku. TOKYO 1018980, Japan (hereafter referred to as the assignee), is desirous of acquiring the entire right, title and interest in said invention, all applications for and all letters patent issued on said invention.

For good and valuable consideration, the receipt and sufficiency of which is acknowledged, the undersigned, intending to be legally bound, do hereby sell, assign and transfer to the assignee and assignee's successors, assigns and legal representatives the entire right, title and interest in said 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 said 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 warrant that the rights and property herein conveyed are free and clear of any encumbrance.

EXECUTED under seal on this 26 th day of September, 2011 at Toyama-shi, Japan.

Witness:

Johnsahi Jadashi Akao Tokunobu

AKAO, Tokunobu

(Although not mandatory, if possible, please subscribe appropriate notarization and obtain APOSTILLE)

EXECUTED under seal on this 2 Geh day of September, 2011

at Toyama-shi, Japan.

Witness:

Taknishi Tadashi

OGAWA Unru

(Although not mandatory, if possible, please subscribe appropriate notarization and obtain APOSTILLE)

EXECUTED under seal on this 26th day of September, 2011

at Toyama-shi, Japan.

Witness:

Takasaki Tadashi

OKUNO, Masahisa

(L.S.)

(Although not mandatory, if possible, please subscribe appropriate notarization and obtain APOSTILLE)

4 of 7

EXECUTED under seal on this 26th day of September, 2011

at Toyama-shi, Japan.

Witness:

Takasepi Tadoshi

Jashima Shinji (L.S.)
YASHIMA, Shinji

(Although not mandatory, if possible, please subscribe appropriate notarization and obtain APOSTILLE)

5 of 7

EXECUTED under seal on this _>6th day of _September_, 2011 at Toyama-shi, Japan.

Witness:

Takasahi Tadashi U

UMEKAWA, Atsushi (L.S.)

(Although not mandatory, if possible, please subscribe appropriate notarization and obtain APOSTILLE)

6 of 7

1425000-1

	EXECUTED under seal on this 26th day of	of <u>September</u> , 2011
at <u>To</u>	yama-shi, Japan .	

Witness:

Tarkasapi Tadashi

Kalchiro Minami (L.S.)

MINAMI, Kaichiro

(Although not mandatory, if possible, please subscribe appropriate notarization and obtain APOSTILLE)

7 of 7

1425000 - 1

RECORDED: 11/18/2011

PATENT REEL: 027250 FRAME: 0302