504921265 05/18/2018

PATENT ASSIGNMENT COVER SHEET

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 SUBMISSION TYPE:
 NEW ASSIGNMENT

 NATURE OF CONVEYANCE:
 ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
YUKIHIRO IWANAGA	04/16/2015
KOUJI SUZUMURA	04/20/2015
TATSUYA SAKUTA	04/17/2015

RECEIVING PARTY DATA

Name:	HITACHI CHEMICAL COMPANY, LTD.
Street Address:	9-2, MARUNOUCHI 1-CHOME, CHIYODA-KU
City:	TOKYO
State/Country:	JAPAN
Postal Code:	100-6606

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15983158

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	20369-143321-US
NAME OF SUBMITTER:	GILES N. TURNER
SIGNATURE:	/Giles N. Turner/
DATE SIGNED:	05/18/2018
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 3

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PATENT 504921265 REEL: 045843 FRAME: 0223

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PATENT REEL: 045843 FRAME: 0224

COMBINED DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION AND ASSIGNMENT THEREOF

As a below named inventor, I hereby declare that:

The below-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.

EXPANSION METHOD, METHOD FOR MANUFACTURING SEMICONDUCTOR DEVICE, AND SEMICONDUCTOR DEVICE

(Title of Invention)

the specification of which:

is attached hereto, or

was filed by an authorized person on my behalf on December 26, 2013 as United States Application Number or PCT International Application Number PCT/JP2013/084879_, and was amended on _______

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment specifically referred to above.

(if applicable).

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56, including, for continuation-in-part applications, material information which became available between the filing date of the prior application and the filing date of the continuation-in-part application.

I, for good and valuable consideration, receipt of which is hereby acknowledged, have assigned and do hereby assign and sell, which confirms any previous assignment by me or by operation of law, to HITACHI CHEMICAL COMPANY, LTD., a Japanese corporation, having its principal place of business at 9-2, Marunouchi 1-chome,

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Attorney Docket No.

Chiyoda-ku, Tokyo 100-6606 Japan ("Assignee"), its successors, assigns, and legal representatives, the entire right, title, and interest, in and to all subject matter and improvements invented, made, or conceived by me and described in the application for patent identified above and in and to all patent and all patent convention and treaty rights of all kinds, including the right to claim priority from said application, and all rights in and to any utility model, continuation, continuation-in-part, and divisional application therefrom, and any reissue or re-examination as to any patent issuing therefrom, in all countries throughout the world, for all such subject matter described therein, including all rights of action and rights to recover damages for past infringements.

I agree that on request and without further consideration, I will communicate to the Assignee or its representatives or nominees any facts known to me respecting the inventions and improvements and testify in any legal proceeding, make all rightful oaths, sign all lawful papers, and execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent, utility model, or other similar rights in all countries including, but not limited to, any provisional, non-provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, for any derivation proceedings relating thereto, and, as to any patents that issue from such applications, for any supplemental examination, derivation proceeding, opposition, post grant review, reissue, re-examination, *inter partes* review, or extension thereof, and generally do everything possible to aid the Assignee, its successors, assigns, and nominees to obtain and enforce proper patent protection for the invention and its improvements in all countries.

I hereby authorize and request the attorneys of Fitch, Even, Tabin & Flannery, LLP to insert above the filing date and application number of said application when known.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made herein on information and belief are believed to be true.

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 five (5) years, or both.

Legal Name of Inventor: (Given names first, with Family name last) Inventor's Signature: Date: Inventor's Address:	Yukihiro IWANAGA 2015 - 4 16 c/o Hitachi Chemical Company, Ltd., 14, Goiminamikaigan, Ichihara-shi, Chiba 290-8567, Japan
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