

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	KENJI OKITA	04/26/2013
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	SUMCO CORPORATION	
<b>Street Address:</b>	2-1, SHIBAURA 1-CHOME, MINATO-KU	
<b>City:</b>	TOKYO	
<b>State/Country:</b>	JAPAN	
<b>Postal Code:</b>	1058634	
<b>PROPERTY NUMBERS Total: 1</b>		
<b>Property Type</b>	<b>Number</b>	
<b>Application Number:</b>	15654266	
<b>CORRESPONDENCE DATA</b>		
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<b>ATTORNEY DOCKET NUMBER:</b>	P52583	
<b>NAME OF SUBMITTER:</b>	DANIEL B. MOON	
<b>SIGNATURE:</b>	/Daniel B. Moon/	
<b>DATE SIGNED:</b>	07/19/2017	
<b>Total Attachments: 2</b>		
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ASSIGNMENT

WHEREAS, **Kenji OKITA**, a citizen of JAPAN, whose post office address is c/o SUMCO CORPORATION, 2-1, Shibaura 1-chome, Minato-ku, Tokyo 1058634, JAPAN, hereinafter referred to as the ASSIGNOR, has invented a certain improvement relating to

**APPARATUS FOR CLEANING EXHAUST PASSAGE FOR SEMICONDUCTOR  
CRYSTAL MANUFACTURING DEVICE AND METHOD FOR CLEANING SAME**

for which he has executed, on the same date as this assignment, an application for Letters Patent for the United States to be filed in the United States Patent and Trademark Office, which Application is a National Stage of International Application No. PCT/JP2011/057739, filed March 29, 2011.

If this Assignment is filed after the filing date of the above-identified application, the undersigned hereby authorize and request any one of the practitioners of record in this application associated with Customer No. 07055 including Neil F. Greenblum, Reg. No. 28,394, Bruce H. Bernstein, Reg. No. 29,027, Arnold Turk, Reg. No. 33,094, James L. Rowland, Reg. No. 32,674, Stephen M. Roylance, Reg. No. 31,296, Leslie J. Paperner, Reg. No. 33,329, William Pieprz, Reg. No. 33,630, Robert W. Mueller, Reg. No. 35,043, William E. Lyddane, Reg. No. 41,568 and William S. Boshnick, Reg. No. 44,550, of the firm Greenblum & Bernstein, P.L.C., whose address is 1950 Roland Clarke Place, Reston, Virginia 20191, to insert here in parenthesis (Application No. 15/654,266, filed July 19, 2017) the filing date and application number of said application when known.

AND WHEREAS, **SUMCO CORPORATION**, a corporation organized and existing under the laws of JAPAN, whose post-office address is 2-1, Shibaura 1-chome, Minato-ku, Tokyo 105-8634, JAPAN, hereinafter known as the ASSIGNEE, is desirous of acquiring the entire right, title and interest for the United States in and to said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues, reexaminations, and prolongations thereof.

NOW, THIS WITNESSETH that for and in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt whereof is hereby acknowledged, said ASSIGNOR hereby assigns, sells and transfers to said ASSIGNEE, its assigns and legal representatives, the entire and exclusive right, title and interest in and to said invention and application, for the United States including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted therefor and all rights to sue for past and future infringement thereunder, said ASSIGNEE and its assigns and legal representatives to have, hold, exercise and enjoy the said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues, reexaminations, and prolongations thereof, with all the rights, powers, privileges, and advantages in any ways arising from or pertaining thereto, for and during the term or terms of any and all such Letters Patent when granted, including any and all renewals, reissues, reexaminations, and

prolongations thereof, for the use and benefit of said ASSIGNEE and its assigns and legal representatives in as ample and beneficial a manner to all intents and purposes as the said ASSIGNOR might or could have held and enjoyed the same, if this assignment had not been made.

AND said ASSIGNOR hereby agrees to execute all papers necessary to file applications in the United States for said invention and to assign the same to said ASSIGNEE, or any assignee acquiring title to said invention, and to execute any other papers that may be needed in connection with filing said application and securing Letters Patent thereon.

AND said ASSIGNOR authorizes and requests the Commissioner of Patents to issue Letters Patent on said application, and on any and all divisions and continuations thereof, to said ASSIGNEE, its assigns and legal representatives, in accordance herewith.

IN TESTIMONY WHEREOF, this assignment is executed by said ASSIGNOR, on the date indicated below.

First Witness:

\_\_\_\_\_  
(Name)

\_\_\_\_\_  
(Date)

三井物産株式会社

Kenji OKITA

Second Witness:

\_\_\_\_\_  
(Name)

\_\_\_\_\_  
(Date)

Date Apr. 26, 2013