

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
TOSHIAKI SUDO	12/01/2016
TAIRA SATO	12/08/2016
SHUICHI IKEHATA	12/08/2016
MANABU SHONAI	12/08/2016
TAKUJI NISHI	12/08/2016
TAKAYA SATOU	12/12/2016
SHINSUKE YAMAZAKI	12/05/2016
RECEIVING PARTY DATA	
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State/Country:	JAPAN
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15354924
CORRESPONDENCE DATA	
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NAME OF SUBMITTER:	KATSUHIRO ARAI
SIGNATURE:	/katsuhiko arai/
DATE SIGNED:	12/13/2016

This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 3

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**ASSIGNMENT COMBINED WITH
DECLARATION FOR UTILITY/DESIGN PATENT APPLICATION (37 CFR 1.63(e))**

WHEREAS, as a below named inventor, I hereby declare under 37 C.F.R. 1.63 that:

I have invented certain new and useful work in

VITREOUS SILICA CRUCIBLE AND METHOD OF MANUFACTURING THE SAME

for which a patent application in the United States (hereinafter "Application"):

is attached hereto or concurrently filed herewith

OR

was filed on [mm/dd/yyyy]

11/17/2016

as United States Application Number or PCT International Application Number

15/354,924 ;

This declaration is directed to the Application;

The Application was made or authorized to be made by me;

I believe that I am the original or an original joint inventor of a claimed invention in the application;

I hereby acknowledge that any willful false statement made in this document is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both;

I also acknowledge that a person may not execute an oath or declaration for an application unless that person has reviewed and understands the contents of the application, including the claims, and is aware of the duty to disclose to the U.S. Patent and Trademark Office all information known to the person to be material to patentability as defined in 37 C.F.R. 1.56; and

I authorize practitioners associated with Customer Number **76993** to insert on this document the serial number, filing date, and any further identification that may be necessary or desirable by the U.S. Patent and Trademark Office;

AND WHEREAS, SUMCO CORPORATION, a Japanese corporation, with its principal place of business at 1-2-1 Shibaura, Minato-ku, Tokyo 105-8634 Japan (hereinafter "ASSIGNEE"), desires to acquire the entire right, title, and interest in and to said work and said Application;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned inventor(s) (individual(s) hereinafter "ASSIGNOR") do/does hereby acknowledge that the ASSIGNOR has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in, to and under said work, and said application, and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said work in any country or countries foreign to the United States, and all Letters Patent which may be granted for said work in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and the ASSIGNOR hereby authorizes and requests the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said work to said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument;

AND ASSIGNOR DOES HEREBY sell, assign, transfer, and convey to said ASSIGNEE, its successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to said ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of said Letters Patent before or after issuance; and

AND ASSIGNOR DOES HEREBY covenant and agree that the ASSIGNOR will communicate to said ASSIGNEE, its successors, legal representatives and assigns, any facts known to the ASSIGNOR respecting said work, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said work in all countries.

IN TESTIMONY WHEREOF, the ASSIGNOR executes this assignment:

NAME OF FIRST INVENTOR	
First and Middle [if any] Toshiaki	FAMILY NAME SUDO
Inventor's Signature <i>Toshiaki Sudo</i>	Date <i>Dec. 1, 2016</i>
NAME OF SECOND INVENTOR	
First and Middle [if any] Taira	FAMILY NAME SATO
Inventor's Signature <i>Taira SATO</i>	Date <i>Dec. 8, 2016</i>
NAME OF THIRD INVENTOR	
First and Middle [if any] Shuichi	FAMILY NAME IKEHATA
Inventor's Signature <i>Shuichi Ikehata</i>	Date <i>Dec. 8, 2016</i>
NAME OF FOURTH INVENTOR	
First and Middle [if any] Manabu	FAMILY NAME SHONAI
Inventor's Signature <i>Manabu Shonai</i>	Date <i>Dec. 8, 2016</i>
NAME OF FIFTH INVENTOR	
First and Middle [if any] Takuji	FAMILY NAME NISHI
Inventor's Signature <i>Takuji Nishi</i>	Date <i>Dec. 8, 2016</i>

NAME OF SIXTH INVENTOR	
First and Middle [if any] Takaya	FAMILY NAME SATOU
Inventor's Signature <i>Takaya SATOU</i>	Date <i>Dec. 12, 2016</i>
NAME OF SEVENTH INVENTOR	
First and Middle [if any] Shinsuke	FAMILY NAME YAMAZAKI
Inventor's Signature <i>Shinsuke Yamazaki</i>	Date <i>Dec. 5, 2016</i>

Please Direct All Correspondence to Customer Number 76993