

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Toshiaki SUDO</td> <td>06/22/2011</td> </tr> <tr> <td>Makiko KODAMA</td> <td>06/27/2011</td> </tr> <tr> <td>Minoru KANDA</td> <td>06/27/2011</td> </tr> <tr> <td>Hiroshi KISHI</td> <td>06/23/2011</td> </tr> </tbody> </table>		Name	Execution Date	Toshiaki SUDO	06/22/2011	Makiko KODAMA	06/27/2011	Minoru KANDA	06/27/2011	Hiroshi KISHI	06/23/2011
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Hiroshi KISHI	06/23/2011										
RECEIVING PARTY DATA											
Name:	JAPAN SUPER QUARTZ CORPORATION										
Street Address:	5-14-3, Barajima										
City:	Akita-shi, Akita										
State/Country:	JAPAN										
Postal Code:	010-0065										
PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13394284</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13394284						
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Application Number:	13394284										
CORRESPONDENCE DATA											
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NAME OF SUBMITTER:	Katsuhiro Arai										
Total Attachments: 2 source=Assignment-skip-014apc#page1.tif source=Assignment-skip-014apc#page2.tif											

CH \$40.00 13394284

ASSIGNMENT

WHEREAS, the undersigned inventor(s) have/has invented certain new and useful improvements in a

VITREOUS SILICA CRUCIBLE FOR PULLING SILICON SINGLE CRYSTAL AND METHOD OF MANUFACTURING THE SAME

for which the undersigned inventor(s)

will file an application for Letters Patent in the United States identified as Attorney Docket Number shown in the top margin (hereinafter "Application");

have/has filed an application, International Application No. **PCT/JP2010/064053**, filed on [mm/dd/yyyy] **08/20/2010**, under the Patent Cooperation Treaty, which will enter the U.S. National Phase under 35 U.S.C. §371 (hereinafter "Application");

have/has filed an application for Letters Patent in the United States, Application No. _____, filed _____ (hereinafter "Application");

AND WHEREAS, **JAPAN SUPER QUARTZ CORPORATION**, a Japanese corporation, with its principal place of business at **5-14-3, Barajima, Akita-shi, Akita 010-0065 Japan**, Japan (hereinafter "ASSIGNEE"), desires to acquire the entire right, title, and interest in and to said improvements and said Application;

NOW, THEREFORE, in return for good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned inventor(s) do/does hereby acknowledge that the undersigned inventor(s) have/has sold, assigned, transferred and set over, and by these presents do/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 improvements, 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 improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and the undersigned inventor(s) hereby authorize(s) and request(s) 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 improvements to said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument;

AND THE UNDERSIGNED INVENTOR(S) DO/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;

PQ0719WO-US1_0397US1WO-JSQ-JP

AND THE UNDERSIGNED INVENTOR(S) HEREBY covenant(s) and agree(s) that the undersigned inventor(s) will communicate to said ASSIGNEE, its successors, legal representatives and assigns, any facts known to the undersigned inventor(s) respecting said improvements, 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 improvements in all countries.

IN TESTIMONY WHEREOF, the undersigned inventor(s) execute(s) this assignment:

NAME OF SOLE OR FIRST INVENTOR	
first and middle [if any] Toshiaki	FAMILY NAME SUDO
Inventor's Signature <i>Toshiaki Sudo</i>	Date <i>June .22, 2011</i>
NAME OF SECOND INVENTOR	
first and middle [if any] Makiko	FAMILY NAME KODAMA
Inventor's Signature <i>Makiko Kodama</i>	Date <i>June .27, 2011</i>
NAME OF THIRD INVENTOR	
first and middle [if any] Minoru	FAMILY NAME KANDA
Inventor's Signature <i>Minoru Kanda</i>	Date <i>June .27, 2011</i>
NAME OF FOURTH INVENTOR	
first and middle [if any] Hiroshi	FAMILY NAME KISHI
Inventor's Signature <i>Hiroshi Kishi</i>	Date <i>June .23. 2011</i>