

## PATENT ASSIGNMENT

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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>11/22/2011</td> </tr> <tr> <td>Eriko SUZUKI</td> <td>11/21/2011</td> </tr> </tbody> </table>		Name	Execution Date	Toshiaki SUDO	11/22/2011	Eriko SUZUKI	11/21/2011
Name	Execution Date						
Toshiaki SUDO	11/22/2011						
Eriko SUZUKI	11/21/2011						
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>13337918</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13337918		
Property Type	Number						
Application Number:	13337918						
CORRESPONDENCE DATA							
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NAME OF SUBMITTER:	Katsuhiro Arai						
Total Attachments: 2 source=Assignment_skip1-024aus#page1.tif source=Assignment_skip1-024aus#page2.tif							

CH \$40.00 13337918

**ASSIGNMENT**

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

**METHOD OF MANUFACTURING VITREOUS SILICA CRUCIBLE**

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. \_\_\_\_\_ filed \_\_\_\_\_, 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;

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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]	FAMILY NAME
Toshiaki	SUDO
Inventor's Signature	Date
<i>Toshiaki Sudo</i>	<i>Nov. 22, 2011</i>
NAME OF SECOND INVENTOR	
first and middle [if any]	FAMILY NAME
Eriko	SUZUKI
Inventor's Signature	Date
<i>Eriko Suzuki</i>	<i>Nov. 21, 2011</i>