

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Hiroshi Kishi	04/07/2011
Eriko Suzuki	04/07/2011
Toshiaki Sudo	04/08/2011
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	
Property Type	Number
Application Number:	13106993
CORRESPONDENCE DATA	
Fax Number: (216)579-6073 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 216-579-1700 Email: jmorrisson@pearne.com Correspondent Name: Jeffrey J. Sopko / Pearne & Gordon LLP Address Line 1: 1801 East 9th Street Address Line 2: Suite 1200 Address Line 4: Cleveland, OHIO 44114-3108	
ATTORNEY DOCKET NUMBER:	SKIP-48006
NAME OF SUBMITTER:	Gregory M. York
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PATENT
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ASSIGNMENT

WHEREAS, new and useful improvements have been made by the undersigned in
VITREOUS SILICA CRUCIBLE FOR PULLING SILICON SINGLE CRYSTAL AND
METHOD FOR MANUFACTURING THE SAME

and are the subject of a patent application prepared for filing in the United States Patent and Trademark Office, and executed by the undersigned on the dates indicated below, which application is further identified as Pearne & Gordon LLP Docket No. _____

WHEREAS, JAPAN SUPER QUARTZ CORPORATION, a corporation of JAPAN, having a place of business at 5-14-3, Bashiima, Akita-shi, Akita 010-0063 Japan, hereinafter referred to as "assignee", is desirous of acquiring all right, title, and interest throughout the world in, to, and under said improvements and inventions and patent rights therefor.

NOW, THEREFORE, be it known that, for valuable consideration, the receipt and sufficiency of which are hereby acknowledged, all right, title, and interest, in the United States and throughout the world, in, to and under said improvements and inventions and all patents, patent applications, patent rights, and inventor's certificates thereof, therefor, and therein, including without limitation said application for patent in the United States, all divisions and continuations thereof, all patents which may be granted thereon, all reissues and extensions thereof, all right to sue for past infringement thereunder, all patents which may be granted for said improvements and inventions by states or nations other than the United States, or by other authority, entity, or organization, and all applications therefor, have been and are hereby sold, assigned, transferred, and delivered unto assignee, its successors and assigns; and it is covenanted and agreed by the undersigned, and for executors, administrators, and legal representatives of the undersigned, that at assignee's request any and all applications, affidavits, assignments, and other instruments will be made, executed, and delivered as may be necessary, or desirable to secure for or vest in assignee, its successors or assigns, any improvement, inventions, right, title, interest, application, patent, patent right or other right or property covered by this assignment, and the United States Commissioner of Patents and Trademarks is hereby requested and authorized to issue any and all United States patents granted on any of said applications to assignee as owner of the entire right, title, and interest in, to, and under the same, and appropriately empowered officials of foreign countries are hereby authorized to issue any letters patent granted on any of said applications to assignee as owner of the entire right, title and interest in, to, and under the same.

The undersigned hereby grants the firm of Pearne & Gordon LLP the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, this assignment has been executed below by the undersigned:

(1) Inventor Name: Hiroshi KISHI

Signature: Toshiaki Kudo

Today's Date: 2011 / 4 / 7

(2) Inventor Name: Eriko SUZUKI

Signature: Eriko Suzuki

Today's Date: 2011 / 4 / 7

(3) Inventor Name: Toshiaki SUDO

Signature: Toshiaki Sudo

Today's Date: 2011 / 4 / 8