

PATENT ASSIGNMENT

Electronic Version v1.1

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Masanori FUKUI</td> <td>10/19/2009</td> </tr> <tr> <td>Satoshi KUDO</td> <td>10/15/2009</td> </tr> <tr> <td>Masaki MORIKAWA</td> <td>10/21/2009</td> </tr> </tbody> </table>		Name	Execution Date	Masanori FUKUI	10/19/2009	Satoshi KUDO	10/15/2009	Masaki MORIKAWA	10/21/2009		
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CORRESPONDENCE DATA											
<p>Fax Number: (703)716-1180</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 703-716-1191</p> <p>Email: gbpatent@gbpatent.com</p> <p>Correspondent Name: GREENBLUM & BERNSTEIN, P.L.C.</p> <p>Address Line 1: 1950 ROLAND CLARKE PLACE</p> <p>Address Line 4: RESTON, VIRGINIA 20191</p>											
ATTORNEY DOCKET NUMBER:	P37525										
NAME OF SUBMITTER:	Daniel B. Moon										
<p>Total Attachments: 2</p> <p>source=p37525_assign#page1.tif</p> <p>source=p37525_assign#page2.tif</p>											

OP \$40.00 12607519

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PATENT
REEL: 023437 FRAME: 0106

ASSIGNMENT

WHEREAS, **Masanori FUKUI**, a citizen of Japan, whose post office address is c/o JAPAN SUPER QUARTZ CORPORATION, 5-14-3, Barajima, Akita-shi, Akita, 010-0065, Japan, **Satoshi KUDO**, a citizen of Japan, whose post office address is c/o SUMCO CORPORATION, 1-2-1 Shibaura, Minato-ku, Tokyo 105-8634, Japan, and **Masaki MORIKAWA**, a citizen of Japan, whose post office address is c/o JAPAN SUPER QUARTZ CORPORATION, 5-14-3, Barajima, Akita-shi, Akita, 010-0065, Japan, and hereinafter referred to as the ASSIGNORS, have invented a certain improvement relating to

**SILICA GLASS CRUCIBLE FOR PULLING UP SILICON SINGLE CRYSTAL,
METHOD FOR MANUFACTURING THEREOF AND
METHOD FOR MANUFACTURING SILICON SINGLE CRYSTAL**

for which they have jointly executed, on the same date as this assignment, an application for Letters Patent of the United States to be filed in the United States Patent and Trademark Office.

If this Assignment is filed after the filing date of the above-identified application, the undersigned hereby authorize and request any one of the attorneys of record in this application 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, Andrew M. Calderon, Reg. No. 38,093, 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. _____, filed _____) the filing date and application number of said application when known.

AND WHEREAS, **JAPAN SUPER QUARTZ CORPORATION**, a corporation organized and existing under the laws of the State of Japan, whose post-office address is 5-14-3, Barajima, Akita-shi, Akita, 010-0065, 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 good and valuable consideration, the receipt whereof is hereby acknowledged, said ASSIGNORS hereby assign, sell and transfer 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 ASSIGNORS might or could have held and enjoyed the same, if this assignment had not been made.

AND said ASSIGNORS hereby agree 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 ASSIGNORS authorize and request 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(S), on the respective date(s) indicated below.

Masanori Fukui
Masanori FUKUI

19 / Oct. / 2009
(Date)

Satoshi Kudo
Satoshi KUDO

15 / Dec. / 2009
(Date)

Masaki Morikawa
Masaki MORIKAWA

21 / Oct / 2009
(Date)