### PATENT ASSIGNMENT

# Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
Hiroshi KISHI	11/20/2009
Masanori FUKUI	11/20/2009
Masaki MORIKAWA	11/20/2009

### RECEIVING PARTY DATA

Name:	JAPAN SUPER QUARTZ CORPORATION	
Street Address:	5-14-3, Barajima, Akita-shi,	
City:	Akita-ken	
State/Country:	JAPAN	

#### PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12563374

### **CORRESPONDENCE DATA**

Fax Number: (703)716-1191

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Correspondent Name: GREENBLUM & BERNSTEIN, PLC

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Address Line 4: Reston, VIRGINIA 20191

	ATTORNEY DOCKET NUMBER:	P37312
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NAME OF SUBMITTER: Sean Myers-Payne

Total Attachments: 4

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PATENT REEL: 023615 FRAME: 0002

## **ASSIGNMENT**

WHEREAS, (1) Hiroshi KISHI; (2) Masanori FUKUI and (3) Masaki MORIKAWA a citizen of Japan, whose post office address is (1) to (3) c/o JAPAN SUPER QUARTZ CORPORATION, 5-14-3, Barajima, Akita-shi, Akita-ken, Japan, hereinafter referred to as the ASSIGNORS, have invented a certain improvement relating to

ARC DISCHARGE METHOD, ARC DISCHARGE APPARATUS, AND FUSED SILICA CRUCIBLE MANUFACTURING APPARATUS

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. 12/563,374, filed September 21, 2009) the filing date and application number of said application when known.

AND WHEREAS, (1)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-ken, 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, 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 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, 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

PATENT REEL: 023615 FRAME: 0003 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 Hiroshi KISHI, this 20th
	at c/o JAPAN SUPER QUARTZ CORPORATION,
5-14-3, Barajima, Akita-shi, Akita-ken, Japa	
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First Witness:	
- 11 11 11 11 11 11 11 11 11 11 11 11 11	
(Name)	
(Ivanic)	
(Date)	
(Date)	21 2/2/
	Diroshi Rishi
	Hiroshi KISHI
Second Witness:	IIIIOSIII IXISIII
200244 (114,000)	
(Name)	
(14ame)	
(Date)	

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IN TESTIMONY WHEREON day of November	F, this assignment is executed by Masanori FUKUI, this 20th 2009, at c/o JAPAN SUPER QUARTZ CORPORATION,
5-14-3, Barajima, Akita-shi, Akita-ki	
First Witness:	
(Name)	_
(Date)	
	<u>Inssunori</u> Fikui Masanori FUKUI
Second Witness:	
(Name)	_
(Date)	_

IN TESTIMONY WHEREOR	F, this assignment is executed by Masaki MORIKAWA, this
20th day of November	2009, at c/o JAPAN SUPER QUARTZ
CORPORATION, 5-14-3, Barajima,	Akita-shi, Akita-ken, Japan
First Witness:	, , <b>.</b>
(Name)	-
(Date)	massla Maycans
	Masaki MORIKAWA
Second Witness:	
(Name)	-
(Date)	-

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**RECORDED: 12/07/2009**