

**PATENT ASSIGNMENT**

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
Name	Execution Date
Heraeus Shin-Etsu America, Inc.	08/20/2009
<b>RECEIVING PARTY DATA</b>	
Name:	Shin-Etsu Quartz Products Co., Ltd.
Street Address:	22-2, Nishi-Shinjuku 1-chome, Shinjuku-ku
Internal Address:	Shinjuku San-ei Bldg.
City:	Tokyo
State/Country:	JAPAN
<b>PROPERTY NUMBERS Total: 1</b>	
Property Type	Number
Patent Number:	7383696
<b>CORRESPONDENCE DATA</b>	
Fax Number:	(503)274-4622
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	(503)222-3613
Email:	docketing@techlaw.com
Correspondent Name:	Alan T. McCollom
Address Line 1:	210 SW Morrison Street
Address Line 2:	Suite 400
Address Line 4:	Portland, OREGON 97204
ATTORNEY DOCKET NUMBER:	4666-0021
NAME OF SUBMITTER:	Alan T. McCollom/
Total Attachments: 2 source=4666-0021_Assignment#page1.tif source=4666-0021_Assignment#page2.tif	

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ASSIGNMENT

**Assignor:** Heraeus Shin-Etsu America, Inc.

**Address:** 4600 NW Pacific Rim Blvd.  
Camas, WA 98607

**Assignee:** Shin-Etsu Quartz Products Co., Ltd.

**Address:** Shinjuku San-ei Bldg.  
22-2, Nishi-Shinjuku 1-chome, Shinjuku-ku  
Tokyo  
JAPAN

**Title of  
Invention:** **SILICA GLASS CRUCIBLE WITH BUBBLE-FREE AND  
REDUCED BUBBLE GROWTH WALL**

U.S. Patent:

**Application Serial No.:** 11/223,158

**Filing Date:** September 8, 2005

**U.S. Patent No.:** 7,383,696

**Filing Date:** June 10, 2008

For good and valuable consideration, the receipt of which is hereby acknowledged, the above-named Assignor hereby sells, assigns and transfers to Assignee, a joint, undivided one-half interest in and to the above-identified invention, patent and patent rights throughout the world, including foreign patent priority rights; said invention, application and letters patent in this or any foreign country, and all divisions, continuations, reissues, non-provisionals and extensions thereof, to be held and enjoyed by Assignee, for its own use and benefit, and for its successors and assigns to the full end of the term for which letters patent may be granted in this or any foreign country.

Executed at Camas, Washington, this 20<sup>th</sup> day of August,  
2009.

Assignor:

HERAEUS SHIN-ETSU AMERICA, INC.

K. Kemmochi  
Katsuhiko Kemmochi  
President