

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

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>Katsuhiko Kemmochi</td><td>02/10/2009</td></tr><tr><td>Robert Joseph Coolich</td><td>02/10/2009</td></tr></tbody></table>	Name	Execution Date	Katsuhiko Kemmochi	02/10/2009	Robert Joseph Coolich	02/10/2009					
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Robert Joseph Coolich	02/10/2009										
RECEIVING PARTY DATA											
<table border="1"><tr><td>Name:</td><td>Heraeus Shin-Etsu America, Inc.</td></tr><tr><td>Street Address:</td><td>4600 NW Pacific Rim Blvd.</td></tr><tr><td>City:</td><td>Camas</td></tr><tr><td>State/Country:</td><td>WASHINGTON</td></tr><tr><td>Postal Code:</td><td>98607</td></tr></table>	Name:	Heraeus Shin-Etsu America, Inc.	Street Address:	4600 NW Pacific Rim Blvd.	City:	Camas	State/Country:	WASHINGTON	Postal Code:	98607	
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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>12370517</td></tr></tbody></table>	Property Type	Number	Application Number:	12370517							
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CORRESPONDENCE DATA											
Fax Number: (503)274-4622 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
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NAME OF SUBMITTER:	Alan T. McCollom										
Total Attachments: 3 source=4666-0041_Assignment#page1.tif source=4666-0041_Assignment#page2.tif											

OP \$40.00 12370517

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PATENT
REEL: 022255 FRAME: 0937

ASSIGNMENT

Assignor: Katsuhiko Kemmochi
Address: 4600 NW Pacific Rim Blvd.
Camas, WA 98607

Assignor: Robert Joseph Coolich
Address: 4600 NW Pacific Rim Blvd.
Camas, WA 98607

Assignee: Heraeus Shin-Etsu America, Inc.
Address: 4600 NW Pacific Rim Blvd.
Camas, WA 98607

**Title of
Invention:** **SILICA CRUCIBLE WITH PURE AND BUBBLE FREE INNER
CRUCIBLE LAYER AND METHOD OF MAKING THE SAME**

U.S. Patent Application:

Application Serial No.: Not yet assigned

Filing Date: Filed Herewith

For good and valuable consideration, the receipt of which is hereby acknowledged, the above-named Assignor hereby sells, assigns and transfers to Assignee, the full and exclusive right, title and interest in and to the above-identified invention, patent application 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, as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made, and covenant that Assignor has full right so to do, and agree that Assignor will communicate to Assignee, or its successors and assigns, any facts known to Assignor respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, non-provisional and reissue

applications, make all rightful oaths, and do everything possible to aid Assignee, its successors and assigns to obtain and enforce proper patent protection for said invention in this or any foreign country.

In the event that the patent application filing date or serial number is not known at the time this document is executed, Assignor hereby grants permission to the attorneys of record in the patent application to fill in the filing date and/or serial number above, and to record this assignment after such information is added.

Executed at Vancouver, WA, this 10th day of February, 2009.

Assignor:

K. Kemmochi
Katsuhiko Kemmochi

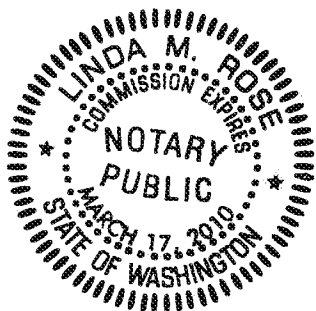
STATE OF WASHINGTON
County of CLARK) ss.

Before me this 10th day of February, 2009, personally appeared Katsuhiko Kemmochi, to me known to be the person who is described in and who executed the foregoing assignment instrument and acknowledged to me that he executed the same of his own free will for the purpose therein expressed.

Linda M. Rose
Notary Public for State of Washington

My commission expires: March 17, 2010

[SEAL]



Executed at Vancouver, WA, this 10th day of February, 2009.

Assignor:

Robert J. Coolich
Robert Joseph Coolich

STATE OF WASHINGTON
County of CLARK) ss.

Before me this 10th day of February, 2009, personally appeared Robert Joseph Coolich, to me known to be the person who is described in and who executed the foregoing assignment instrument and acknowledged to me that he executed the same of his own free will for the purpose therein expressed.

Linda M. Rose
Notary Public for STATE OF WASHINGTON

My commission expires: March 17, 2010

[SEAL]

