

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Shin-Etsu Quartz Products Co., Ltd.	09/30/2009
RECEIVING PARTY DATA	
Name:	Heraeus Shin-Etsu America, Inc.
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	12370517
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NAME OF SUBMITTER:	Alan T. McCollom
Total Attachments: 2 source=4666-0041_Assignment_from_SQP_to_HSA#page1.tif source=4666-0041_Assignment_from_SQP_to_HSA#page2.tif	

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PATENT
REEL: 023316 FRAME: 0071

ASSIGNMENT

Assignor: Shin-Etsu Quartz Products Co., Ltd.

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JAPAN

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.: 12/370,517

Filing Date: February 12, 2009

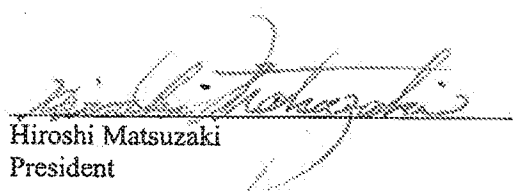
For good and valuable consideration, the receipt of which is hereby acknowledged, the above-named Assignor hereby sells, assigns and transfers to Assignee, all of its right, title and interest in and to the above-identified invention, patent application and patent rights throughout the world, including 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.

Executed at Tokyo, Japan, this 30th day of September, 2009.

Assignor:

SHIN-ETSU QUARTZ PRODUCTS CO., LTD.


Hiroshi Matsuzaki
President