PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
THOMAS BUCKENAUER	02/08/2015
REMO POHL	02/08/2015
ROBERT STENGER	02/12/2015
ALEXANDER BÖHLER	02/08/2015

RECEIVING PARTY DATA

Name:	Heraeus Quarzglas GmbH & Co. KG
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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14569615

CORRESPONDENCE DATA

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NAME OF SUBMITTER:	ANDREW T. FRITZ
SIGNATURE:	/Andrew T. Fritz/
DATE SIGNED:	05/14/2015

Total Attachments: 2

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PATENT 503307060 REEL: 035640 FRAME: 0001

ASSIGNMENT

WHEREAS, I, as below named inventor, am a sole inventor (if only one name is listed below) or a joint inventor (if plural names are listed below) of certain new and useful improvements in

<u>VERTICAL CRUCIBLE PULLING METHOD FOR PRODUCING A GLASS BODY HAVING A HIGH SILICIC-ACID COMPONENT.</u>

for which a United States patent application was filed on 12 December 2014 and assigned Serial No. 14/569,615:

AND WHEREAS,

Heraeus Ouarzglas GmbH & Co. KG, a German corporation with offices at <u>Quarzstrasse 8</u>, 63450 Hanau, Germany, (hereinafter referred to as ASSIGNEE) is desirous of acquiring all, right, title and interest in, to and under said invention, said application disclosing the invention and in, to and under any Letters Patent or similar legal protection which may be granted therefor in the United States and in any and all foreign countries;

NOW THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I, as a sole or joint inventor as indicated below, by these presents do hereby assign, sell and transfer unto the said ASSIGNEE, its successors, assigns, and legal representatives, the entire right, title and interest in the said invention, said application, including any divisions and continuations thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said invention, and in and to any and all priority rights and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and to any other benefits accruing or to accrue to me with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, including any and all rights to bring legal action to prevent or recover for any and all infringement thereof, and I hereby authorize and request the Commissioner of Patents and Trademarks of the United States of America, and any official of any country whose duty is to issue patents on applications as described above, to issue all Letters Patent in the United States of America and any other country to said ASSIGNEE, as the assignees of the whole right, title and interest thereto:

And I further agree to execute all necessary or desirable and lawful future documents, including assignments in favor of ASSIGNEE or its designee, as ASSIGNEE or its successors, assigns and legal representatives may from time-to-time present to me and without further remuneration, in order to perfect title in said invention, modifications, and improvements in said invention, applications and Letters Patent of the United States and countries foreign thereto;

And I further agree to properly execute and deliver and without further remuneration, such necessary or desirable and lawful papers for application for foreign patents, for filing subdivisions of said application for patent, and or, for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid invention, as the ASSIGNEE thereof shall hereafter require and prepare at its own expense;

And I further agree that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and

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legal equivalents in foreign countries as may be known and accessible to me and will testify as to the same in any interference or litigation related thereto;

And I hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

This assignment executed on the dates indicated below.

February 08,2015

Velornary 08, 20

February 12,2015

Lebruary 08,2015

<u> Marian Mar</u> Thomas Buckenauer

Remo Pohl

Robert Stenger

Alexander Böhler

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Atty. Docket no. 52201-0765