

**RECORDATION FORM COVER SHEET  
PATENTS ONLY**

To the Director of the U.S. Patent and Trademark Office: Please record the attached document.

**1. Name of conveying party(ies)**  
Christian Neumann  
Boris Gromann  
Lothar Huefner  
Heinz Bauscher  
Additional name(s) of conveying party(ies) attached?  Yes  No

**2. Name and address of receiving party(ies)**  
Name: Heraeus Quarzglas GmbH & Co. KG  
Internal Address: \_\_\_\_\_  
Street Address: Quarzstrasse 8  
City: Hanau  
State: \_\_\_\_\_  
Country: Germany Zip: 63450  
Additional name(s) & address(es) attached?  Yes  No

**3. Nature of conveyance/Execution Date(s):**  
Execution Date(s) Feb. 15, Feb. 20, and Feb. 25, 2013  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Joint Research Agreement  
 Government Interest Assignment  
 Executive Order 9424, Confirmatory License  
 Other \_\_\_\_\_

**4. Application or patent number(s):**  This document is being filed together with a new application.  
A. Patent Application No.(s)  
13/814,453  
B. Patent No.(s)  
Additional numbers attached?  Yes  No

**6. Total number of applications and patents involved:** 1

**5. Name and address to whom correspondence concerning document should be mailed:**  
Name: Andrew L. Tiajloff, Esq.  
Internal Address: \_\_\_\_\_  
Street Address: Tiajloff & Kelly LLP  
405 Lexington Ave., Chrysler Building-37th Fl.  
City: New York  
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Fax Number: 212-490-3295  
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**7. Total fee (37 CFR 1.21(h) & 3.41)** \$40.00  
 Authorized to be charged to deposit account  
 Enclosed  
 None required (government interest not affecting title)

**8. Payment Information**  
Deposit Account Number 50-1659  
Authorized User Name Andrew L. Tiajloff

**9. Signature:**  March 13, 2013  
Signature Date  
Andrew L. Tiajloff  
Name of Person Signing  
Total number of pages including cover sheet, attachments, and documents:

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

03/21/2013 LL INDGPA 00000002 13814453 40.00 BP 02 FC:8021

## 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

### DRAWING METHOD FOR PRODUCING CYLINDRICAL COMPONENTS FROM QUARTZ GLASS.

for which an international patent application designating the United States was filed on 29 June 2011 and assigned Serial No. PCT/EP2011/060884;

AND WHEREAS,

Heraeus Quarzglas GmbH & Co. KG, a German corporation with offices at Quarzstrasse 8, 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

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.

And I hereby authorize and request my attorney(s) of record in this application to insert the serial number and filing date of this application in the spaces that follow:

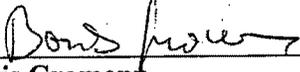
U.S. Serial Number: 13/814,453 , Filing Date: February 5, 2013 .

This assignment executed on the dates indicated below.

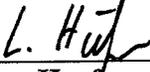
02/15/13  
Date

  
Christian Neumann

02/15/13  
Date

  
Boris Gromann

02/25/13  
Date

  
Lothar Huefner

02/20/13  
Date

  
Heinz Bauscher