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10/545512

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

**1. Name of conveying party(ies)**Takeo Tsumuraya  
Masanori SuzukiAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No**3. Nature of conveyance/Execution Date(s):**

Execution Date(s) 8/2/2005

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Joint Research Agreement  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other \_\_\_\_\_

**2. Name and address of receiving party(ies)**

Name: Heraeus Tenevo GmbH

Internal Address: \_\_\_\_\_

Street Address: Quarzstrasse 863450 Hanau, Germany

City: \_\_\_\_\_

State: 10/545512

Country: \_\_\_\_\_

Zip: \_\_\_\_\_

Additional name(s) & address(es) attached? ☒ Yes ☐ No**4. Application or patent number(s):**A. Patent Application No.(s)  
PCT/EP2004/001267☐ This document is being filed together with a new application.

B. Patent No.(s)

08/19/2005 MKAYPAGH 00000083 10545512

04 FC:8081

40.00 DP

Additional numbers attached? ☐ Yes ☒ No**5. Name and address to whom correspondence concerning document should be mailed:**Name: Andrew L. Tiajloff

Internal Address: \_\_\_\_\_

Street Address: Tiajloff & Kelly405 Lexington Ave., 37th Fl.City: New YorkState: NYZip: 10174Phone Number: 212-490-3285Fax Number: 212-490-3295Email Address: altpto@patentadvance.com**6. Total number of applications and patents involved: 1****7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00**

- ☐ Authorized to be charged by credit card  
☒ Authorized to be charged to deposit account  
☒ Enclosed  
☐ None required (government interest not affecting title)

**8. Payment Information**a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_b. Deposit Account Number 50-1659

Authorized User Name \_\_\_\_\_

**9. Signature:**

Signature

August 12, 2005

Date

Andrew L. Tiajloff

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

4

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:  
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ATTACHMENT TO RECORDATION FORM COVER SHEET

2. Additional name and address of receiving party(ies)

Shin-Etsu Quartz Products Co., Ltd.  
22-2, Nishi-Shinjuku 1-chome  
Shinjuku-ku, Tokyo 160-0023  
Japan

## ASSIGNMENT

WHEREAS, I, as below named inventors, residing at the addresses stated next to my name, 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

**POLISHING METHOD FOR INNER SURFACE OF TUBULAR  
BRITTLE MATERIAL AND TUBULAR BRITTLE MATERIAL  
OBTAINED BY POLISHING METHOD.**

for which an international patent application designating the United States was filed on 11 February 2004 and assigned Serial No. PCT/EP2004/001267,

AND WHEREAS,

Heraeus Tenevo GmbH, a German corporation with offices at Quarzstrasse 8, 63450 Hanau, Germany,

and

Shin-Etsu Quartz Products Co., Ltd., a Japanese corporation with offices at Shinjuku Sai Ei Bldg. 22-2, 1-chome Nishi-Shinjuku, Shinjuku-Ku, Tokyo 160-0023, Japan,

(hereinafter together referred to as ASSIGNEE) are desirous of acquiring all, 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 lawsuits for damages, equitable or other relief for any and all past, present and future infringement of any of said Letters Patents or of any of said extensions, divisions, continuations and continuations-in-part 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: Serial Number: \_\_\_\_\_, Filing Date: \_\_\_\_\_.

This assignment executed on the dates indicated below.

August 2, 2005  
Date

Takeo Tsumuraya  
TAKEO TSUMURAYA

August 2, 2005  
Date

Masanori Suzuki  
MASANORI SUZUKI