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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Masanori Suzuki  
Toshiyuki Kato  
Atsuh Shimada  
Yutaka, Watabe

Additional name(s) of conveying party(ies) attached?  Yes  No

2. Name and address of receiving party(ies)

Heraeus Quarzglas GmbH & Co. KG  
Quarzstrasse  
D-63450 Hanau  
Germany

3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other \_\_\_\_\_

Execution Date: 7/14/00

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

Additional name(s) & address(es) attached?  Yes  No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s)

09/582,956

B. Patent No.(s)

Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Kenneth E. Macklin, Esq.

Internal Address: Milde, Hoffberg & Macklin LLP

Street Address: 10 Bank Street

Suite 460

City: White Plains State: NY ZIP: 10606

09/13/2000 BNGUYEN 00000171 09582956

6. Total number of applications and patents involved:

7. Total fee (37 CFR 3.41).....\$ 40.00

- Enclosed
- Authorized to be charged to deposit account

8. Deposit account number:

50-0427

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To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Kenneth E. Macklin

Name of Person Signing

Kenneth E. Macklin

Signature

Aug 8, 2000

Date

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

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**PATENT**

**REEL: 011053 FRAME: 0268**

HQ 213

ASSIGNMENT

For valuable consideration, the receipt and adequacy of which is hereby acknowledged, the undersigned inventors hereby sell, assign and transfer unto

Heraeus Quarzglas GmbH & Co. KG and  
Quarzstrasse  
D-63450 Hanau  
Germany

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

German and Japanese companies, respectively, the entire right, title, and interest in and to my/our application for Letters Patent of the United States, executed concurrently herewith, entitled

METHOD FOR PRODUCING OPTICAL FIBER PREFORM

and my/our entire right, title, and interest in and to all my/our inventions, whether joint or sole, disclosed in said application for Letters Patent, and in and to all divisional or continuation applications or continuation-in-part applications that may be filed for United States Letters Patent for any of said inventions, or any patent application outside the United States claiming benefit of priority of this application and in and to all patents that may be granted on the foregoing applications, and I/we hereby agree, whenever requested, to communicate to said assignee, its successors and assigns, any facts known to my/us respecting said inventions and to execute all applications or papers necessary to obtain and maintain proper patent protection on said inventions in the United States.

Date

Inventor(s)

July 14, 2000

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