PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|---------------|----------------|
| Karin Naumann | 12/01/2003 |
| Franz Ott | 12/05/2003 |
| Christof Kass | 12/09/2003 |

RECEIVING PARTY DATA

| Name: | SCHOTT GLAS |
|-----------------|---------------|
| Street Address: | Postfach 2480 |
| City: | Mainz |
| State/Country: | GERMANY |
| Postal Code: | 55014 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 10480183 |

CORRESPONDENCE DATA

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NAME OF SUBMITTER: Michael J. Striker

Total Attachments: 1

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PATENT

500268317 **REEL: 019232 FRAME: 0571**

PAS63 WOLLS

Attorney Docket No.: 2823

ASSIGNMENT

In consideration of value received, I, having a residence and post office address as stated below next to my name, the sole inventor (if only one name is listed below), or a joint inventor (if plural inventors are listed below), of an invention described in an application for a United States Patent entitled:

METHOD FOR PRODUCING BOROSILICATE GLASSES

Executed by me on the date indicated next to my name and address and having the above Docket number:

Sell and assign to SCHOTT GLAS

having a business at Mainz, Germany

its successors, assigns or nominees, hereinafter referred to as "Assignee", my entire right, title and interest in and to said invention as disclosed, shown and described in said application for a United States Patent;

and in and to all applications for patent(s) for said invention, in all countries of the world, including all divisions, reissues, continuations, substitutions and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property, including rights of priority, resulting from the filing of any of said applications; and I authorize and request any official whose duty it is to issue patents, to issue any patent on said invention or resulting therefrom to said Assignee, and I agree that on request and without further consideration, but at the expense of said Assignee, I will communicate to said Assignee or its representative all facts known to me respecting said invention and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to aid said Assignee to obtain and enforce proper patent protection for said invention in all countries.

The undersigned hereby grant(s) the firm of STRIKER, STRIKER & STENBY the power to insert on this assignment any further identification or modification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

| Warani | Signature: Lam Patruman | Date: √12 01 2003 | Residence and Full Postal Address: Gutenbergstrasse 19 | |
|--------|-------------------------------------------------------|---------------------------|-----------------------------------------------------------------------------------------------------|--|
| | Full Name of First or Sole Inventor: Karin NAUMANN | Witness: | 55270 Ober-Olm Germany | |
| 04, | Signature: V France OH | Date: y 12/05/2003 | Residence and Full Postal Address: Glaswerk 30 | |
| | Full Name of Second Inventor: Franz OTT | Witness: Y E. V. Court | 95666 Mitterteich Germany | |
| Vass | Signature: | Date: ~12/05 2003 | Residence and Full Postal Address: Grossenseeser Strasse 12a 95643 Tischenreuth Germany | |
| | Full Name of Third Inventor: Christof KASS | Witness; x V. Becker | | |

PATENT

RECORDED: 05/01/2007 REEL: 019232 FRAME: 0572