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To the Honorable Assistant Commissioner for Patents:
Please record the attached original documents or copy thereof.

1. Name of conveying party:
Pia KOPF; and
Joachim HAHN

2. Name and address of receiving party:
Schott Glas
Hattenbergstrasse 10,
55122 Mainz, Germany

3. Nature of conveyance: ASSIGNMENT

Execution Date: October 27, 2003

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):
10/651,137

B. Patent No.(s):

Filing Date: August 28, 2003

OPR/FINANCE
JAN 12 AM 8:01

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

6. Total number of applications and patents involved: 1

Robert J. Kapalka
Tyco Technology Resources
4550 New Linden Hill Road, Suite 140
Wilmington, DE 19808

7. Total fee (37 CFR 1.21(h)) \$40.00

Check for \$40.00 is enclosed

8. Please charge any additional amount to Deposit Account #501581

9. Statement and signature.

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.

Total number of pages including cover sheet, attachments, and document: 3

Steven E. Bach
Registration No. 46,530
Attorney for Applicant(s)
Phone: (610) 889-3697
Date: January 8, 2004

01/13/2004 ECOOPER 00000053 10651137

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Docket No. 41118US

1.7.04/1234343_1.DOC
BarleySnyder Docket No. 21334-1245

ASSIGNMENT

We, Pia KOPF and Joachim HAHN, who reside respectively at:

Roemerstrasse 24, 64683 Einhausen, Germany; and
Am Bornfeld 6, 61389 Schmitten, Germany

have made certain inventions or discoveries (or both) set forth in a patent application in Germany entitled:

"OPTICAL SHORT-CIRCUIT INSERT AND OPTICAL SHORT-CIRCUIT PLUG"

which application was executed by the inventor(s) on the date(s) of execution of this assignment and is identified by Attorney Docket Number 41118 US, and German Patent Application No. 102 39 924.7 filed the 30th day of August, 2002,

and Schott Glas whose address is Hattenbergstrasse 10, 55122 Mainz, Germany

and which, together with its successors and assigns is hereinafter called "Assignee", is desirous of acquiring the title, rights, benefits and privileges hereinafter recited, and of confirming the same or part thereof heretofore acquired by Assignee.

Now, therefore, for valuable consideration furnished by Assignee to me/us, receipt and sufficiency of which I/we hereby acknowledge, without reservation:

1. Assign and convey to and confirm in Assignee the entire right, title and interest in and to said inventions and discoveries, said patent application in Germany, any and all other applications for Letters Patent on said inventions and discoveries in whatsoever countries, including all divisional, renewal, substitute, continuation and convention applications based in whole or in part upon said inventions or discoveries or upon said applications, and any and all Letters Patent and reissues and extensions of Letters Patent granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said discoveries, said applications, and said Letters Patent;

2. Authorize Assignee to file patent applications in any or all countries on any or all of said inventions and discoveries in my name or in the name of Assignee or otherwise as Assignee may deem advisable, under the International Convention or otherwise;

3. Authorize and request the empowered officials of all governments to issue or transfer all said Letters Patent to Assignee, as assignee of the entire right, title and interest therein or otherwise as Assignee may direct;


4. Warrant that I have not knowingly conveyed to others any right in said inventions, discoveries, applications or patent or any license to use the same or to make, use or sell anything embodying or utilizing any of said inventions or discoveries, and that I have good right to assign the same to Assignee without encumbrance;

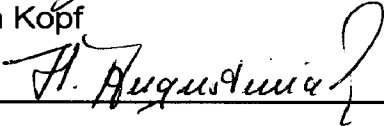
5. Bind my heirs and legal representatives, as well as myself, to do, upon Assignee's request and at its expense, but without additional consideration to me or them, all acts reasonably serving to assure that the said inventions and discoveries, the said patent applications and the said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by me or my heirs or representatives if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to me relating to said inventions and discoveries or the history thereof; and to furnish Assignee with any and all documents, photographs, models, samples and other physical exhibits in my control or in

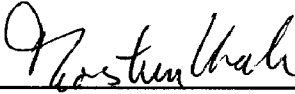
the control of my heirs or legal representatives and which may be useful for establishing the facts of my conceptions, disclosures, and reduction to practice of said inventions and discoveries.

The effective date of this instrument is the 30th day of August, 2002.

In testimony whereof we have affixed our signatures.


Inventor 1:  Date: 27. 10. 03
Pia Kopf

Witness 1:  Date: 27. 10. 03

Witness 2:  Date: 27.10.03

Inventor 2:  Date: 27.10.03
Joachim Hahn

Witness 1:  Date: 27. 10. 03

Witness 2:  Date: ^{27.}~~28.~~ 10. 03