| FORM PTO-1595 (Rev. 6-93) RECORD. | -14-2004 U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office |
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| OMB No. $0651-0011$ (exp. $4/94$) | |
| To the Henerable Commission of Detects | |
| 1. Name of conveying party(ies): 10 | 2. Name and address of receiving party(ies) |
| Bernd SCHULTHEIS, Harry ENGELMANN and | |
| Clemens OTTERMANN | |
| | Internal Address: |
| | |
| Additional name(s) of conveying party(ies) attached? □Yes ■No | |
| 3. Nature of conveyance: | Street Address: Hattenbergstr. 10 |
| Assignment | DE 55122 Maine Commence |
| □ Security Agreement □ Change of Name | DE-55122 Mainz, Germany |
| □ Other | City:State:Zip: |
| Execution Date: 17 November 2004 | Additional name(s) & address(es) attached? |
| Application number(s) or patent number(s): If this document is being filed together with a new application, the execution | |
| A. Patent Application No.(s) | B. Patent No.(s) |
| 10/914,628 | A M |
| Additional numbers at | tached? □ Yes ■ No |
| 5. Name and address of party to whom correspondence concerning document should be mailed: | 6. Total number of applications and patents involved: |
| Name: Douglas H. Pauley | 7. Total fee (37 CFR 3.41) <u>40.00</u> |
| Internal Address: Pauley Petersen & Erickson | Enclosed |
| | □ Authorized to be charged to deposit account |
| Street Address: 2800 West Higgins Road | 8. Deposit Account : |
| Suite 365 | (Attach duplicate copy of this page if paying by deposit account) |
| City: <u>Hoffman Estates</u> State: <u>IL</u> Zip: <u>60195</u> | |
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| 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and of the original document | |
| Douglas H. Pauley Name of Person SigningSign | ature 06 DEC 2004 |
| Reg. No. 33,295 Total number of pages including cover | sheet, attachments, and document: 3 |
| | vith required cover sheet information to: ent Recordation Services |
| VO-689 Director of the US Pa | tent and Trademark Office xandria, VA 22313-1450 |
| or enclosed) is being deposited with the Un 2/13/2004 DRYKNE | true Paule |

PATENT P1009/csh REEL: 016060 FRAME: 0912

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Customer No.: 42419

ASSIGNMENT

WHEREAS, We the following inventors

| 1. | Name: | Bernd SCHULTHEIS |
|------------------------------------|----------------------|--------------------------------|
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| | Post Office Address: | Silvanerweg 2 |
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| 2. | Name: | Harry ENGELMANN |
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| 3. | Name: | Clemens OTTERMANN |
| | Residence: | Hattersheim, Germany |
| | Post Office Address: | Eppsteiner Str. 4 |
| | | DE-65795 Hattersheim, Germany |
| | Citizenship: | Germany |
| | | |

hereinafter referred to as ASSIGNORS, have invented certain new and useful improvements in an invention entitled:

METHOD FOR PRODUCING LIGHT-SCATTERING STRUCTURES ON FLAT OPTICAL WAVEGUIDES

which is described and claimed in an application for Letters Patent of the United States having Serial No. 10/914,628, a Filing Date of 09 August 2004, and naming as inventors Bernd SCHULTHEIS, Harry ENGELMANN and Clemens OTTERMANN; said improvements as described and claimed in said application for Letters Patent of the United States, being hereinafter referred to as said "Invention"; and

WHEREAS, SCHOTT AG, a corporation duly organized and existing under and by virtue of the laws of the Country of Germany and having its principal office and place of business at Hattenbergstr. 10, DE-55122 Mainz, Germany, hereinafter referred to as ASSIGNEE, is desirous of acquiring ASSIGNORS' entire rights, title and interest in and to said Invention, and in, to and under Letters Patent therefor in the United States;

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PATENT REEL: 016060 FRAME: 0913

NOW THEREFORE BE IT KNOWN THAT, for and in consideration of good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, ASSIGNORS have sold, assigned, transferred and set over and by these presents do hereby sell, assign, transfer and set over to and unto ASSIGNEE, its successors and assigns ASSIGNORS' entire rights, title and interest in and to said Invention, and in, to and under the above-identified application and all other applications for Letters Patent of the United States, and in, to and under all divisions, reissues, continuations, extensions and reexaminations thereof, and covenant that ASSIGNORS have the full right so to do; and the Commissioner of Patents is hereby authorized and requested to issue all United States Letters Patent on said Invention included herein to ASSIGNEE, as assignee of ASSIGNORS' entire interest.

ASSIGNORS further agree to communicate to ASSIGNEE or its representatives or agents all facts and information known or available to ASSIGNORS regarding said Invention including evidence for interference purposes or for other legal proceedings, whenever requested; to testify in any interference or other proceedings; to execute and deliver, on request, all lawful papers including original, divisional, continuing and reissue applications, renewals, assignments, powers of attorney, declarations, oaths, affidavits, depositions, etc.; and to generally do everything possible to aid ASSIGNEE, its successors and assigns, but at the expense of ASSIGNEE, in obtaining and enforcing proper protection for said Invention in the United States.

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<u> 15. Nov. 2004</u> Date

X<u>16. Nov. 2004</u> Date Date

X17 Nov. 2004

RECORDED: 12/10/2004

Bernd SCHULTHEIS

Harry ENGELMANN

Clemens OTTERMANN

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