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SIR:

PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENT(S) OR COPY(IES) THEREOF.

10-24-2003



102583035

1. NAME OF CONVEYING PARTY(IES)

Ralf Wolleschensky
Michael Kempe

10-23-03

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

2. NAME(S) AND ADDRESS(ES) OF RECEIVING PARTY(IES)

Carl Zeiss Jena GmbH
Carl-Zeiss-Promenade 10
07745 Jena, Germany

Additional name(s) of receiving party(ies) attached? No

3. NATURE OF CONVEYANCE

- ☒ Assignment
☐ Security Agreement
☐ Merger
☐ Change of Name
☐ Other

Execution Date: 10/06/2003

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): 10/443,262

B. Patent No(s):

C. Issue Batch No.:

D. Issue Date:

Additional numbers attached? No.

OPR/FINANCE

2003 OCT 23 PM 1:47

5. NAME AND ADDRESS OF PARTY TO WHOM
CORRESPONDENCE CONCERNING DOCUMENT
SHOULD BE DIRECTED:

Matthew E. Connors
Samuels, Gauthier & Stevens LLP
225 Franklin Street, Suite 3300
Boston, Massachusetts 02110
(617) 426-9180, Extension : 112

6. TOTAL NUMBER OF APPLICATIONS
AND PATENTS INVOLVED: 1

7. TOTAL FEE DUE: \$40.00 (Enclosed)

If any additional fee(s) are due, the Commissioner is hereby authorized to charge the Deposit Order Account noted in item 8.

8. DEPOSIT ACCOUNT NUMBER: 19-0079

10/20/2003 DBYRNE 00000146 10443262

01 FC:8021

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.

Matthew E. Connors
Name of Person Signing

Signature

Date

10/20/03

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to the Mail Stop Assignment Recordation Services, Director of the US Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450

Date:

10/20/2003

Emily C. Porell

ASSIGNMENT

Know all men by these presents that:

WHEREAS we, Ralf Wolleschensky
 An der Promenade 3
 D-99510 Schoeten
 Germany

 and

 Michael Kempe
 Am Moenchenberge 8
 07751 Kunitz
 Germany

have made an invention for

**HIGH-FLUX ENTANGLED PHOTON GENERATION VIA PARAMETRIC
PROCESSES IN A LASER CAVITY**

described in the application filed in the United States Patent Office filed May 22, 2003 as Serial No. 10/443,262. This application is a continuation of International Patent Application No. PCT/US01/44889 filed on November 30, 2001, which claims benefit to U.S. Provisional Patent Application Serial No. 60/250,175, filed November 30, 2000.

WHEREAS Carl Zeiss Jena GmbH a corporation duly organized and existing under the laws of Germany and having a place of business at Carl-Zeiss-Promenade 10, 07745 Jena, Germany, for the benefit of itself, its successors and assigns, all inclusively hereinafter referred to as the Assignee, is desirous of acquiring the entire right, title and interest in and to the said invention, the said application, all inventions disclosed in said application and any and all Letters Patent of the United States and of all other countries which may be granted for the said invention or inventions, or any of them;

NOW, THEREFORE, for good and valuable consideration provided by said Assignee, the receipt whereof is hereby acknowledged, we do hereby sell, assign and transfer to the said Assignee the entire right, title and interest in and to the said invention, inventions and application, including all priority rights arising therefrom, all inventions disclosed in said application, and any and all Letters Patent of the United States, and of all other countries, together with the right to apply for such Letters Patent, which may be granted for the said invention, inventions or any of them,

TO HAVE, HOLD AND ENJOY the said invention, the said application, and the said

Letters Patent, to said

CARL ZEISS JENA GMBH

its successors and assigns, to its and their own use and behoof to the full end of the term or terms for which the said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by us had this assignment and sale not been made.

AND we hereby authorize and request the Commissioner of Patents of the United States and the appropriate officers of all foreign patent offices to issue any and all Letters Patent which may be granted on the said application or applications above referred to, or for the said invention, or any of them, to the said Assignee in accordance with the terms of this instrument.

AND we hereby agree to execute and sign without further consideration any other legal document and any other assignments and any divisional, continuing, renewal, reissue or other application in and for all patents that may be appropriate and may be deemed necessary by the Assignee fully to secure to said Assignee its interests as aforesaid in and to the said invention or any part thereof and in and to the said patents or any of them.

AND we further covenant and agree that we will at any time upon request communicate to the said Assignee, its successors, assigns or other legal representatives, any facts known to us relating to the said invention and any patent that may be granted thereon, and will testify as to the same in any interference or litigation when requested to do so.

AND we hereby covenant for ourselves and our legal representatives that we have not hitherto assigned or granted any license to make, use or sell said invention, and that we will not henceforth purport to assign, license or execute any instrument to that effect in conflict with this assignment.

IN WITNESS WHEREOF, we have hereunto set our hands and seals on the dates below.

06/10/03

Date

Ralf Wolleschensky
RALF WOLLESCHENSKY

6/10/03

Date

Michael Kempe
MICHAEL KEMPE