

05-28-2003



102457647

Form PTO-1595 (Rev. 10/02) OMB No. 0651-0027 (exp. 6/30/2005) Tab settings

U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office

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

1. Name of conveying party(ies): Robert J. Lauf Kimberly K. Anderson Frederick C. Montgomery S-16-03 Additional name(s) of conveying party(ies) attached? [] Yes [x] No

2. Name and address of receiving party(ies) Name: UT-Battelle, LLC Internal Address: P.O. Box 2008, MS-6498 Street Address: 111B Union Valley Road City: Oak Ridge State: TN Zip: 37830 Additional name(s) & address(es) attached? [] Yes [x] No

3. Nature of conveyance: [x] Assignment [] Merger [] Security Agreement [] Change of Name [] Other Execution Date: May 16, 2003

4. Application number(s) or patent number(s): 10439608 If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No.(s) B. Patent No.(s) Additional numbers attached? [] Yes [x] No

6. Total number of applications and patents involved: [] 7. Total fee (37 CFR 3.41).....\$ 40.00 [] Enclosed [x] Authorized to be charged to deposit account

5. Name and address of party to whom correspondence concerning document should be mailed: Name: Shelley L. Stafford Internal Address: P.O. Box 2008, MS-6498 Street Address: 111B Union Valley Road City: Oak Ridge State: TN Zip: 37830

8. Deposit account number: 13-1958

DO NOT USE THIS SPACE

9. Signature. Shelley L. Stafford Name of Person Signing Shelley L. Stafford Signature May 16, 2003 Date

Total number of pages including cover sheet, attachments, and documents: 5

Mail documents to be recorded with required cover sheet information to: Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231

05/27/2003 6TOM11 00000159 131958 10439608 01 FC:8021 40.00 CH

PATENT REEL: 014094 FRAME: 0144

10/13/03 10/13/03 05/16/03

ASSIGNMENT

WHEREAS, I, the below-named inventor whose residence and post office box is as stated below, have invented certain new and useful improvements in an

INORGANIC OPTICAL TAGGANT AND METHOD OF MAKING

(hereinafter referred to as "Subject Invention") for which an application for United States Letters Patent was executed by me on even date herewith, and

WHEREAS, UT-BATTELLE, LLC, a limited liability company of the State of Tennessee, having an office at 111-B Union Valley Road, P.O. Box 2008, Oak Ridge, Tennessee 37831-6498 (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring the right, title, and interest of the undersigned in the Subject Invention and to any Letters Patent that may be granted therefore in the United States of America and in any and all foreign countries.

NOW, THEREFORE, in accordance with the terms of my employment agreement with ASSIGNEE and for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby assign to ASSIGNEE my entire right, title, and interest in the Subject Invention, to all rights of priority thereto pursuant to the International Convention for the Protection of Industrial Property, and in any Letters Patent on the Subject Invention that may be granted in the United States of America and in any and all foreign countries, including any and all Letters Patent that are divisions, reissues, continuations, substitutions or extensions of any Letters Patent or applications therefore on the Subject Invention.

I hereby authorize and request the Commissioner of the United States Patent and Trademark Office and the officials of any and all foreign countries to issue any and all of said Letters Patent, when granted, to the ASSIGNEE.

Further, I hereby agree to communicate to said ASSIGNEE or its representatives any facts known to me respecting said Subject Invention, to testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, substitution, renewal and reissue applications, to execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, and to make all rightful oaths and generally do everything possible to aid said ASSIGNEE and its representatives to obtain and enforce proper protection for said Subject Invention in the United States of America and in any and all foreign countries.

I further agree that the terms, covenants and conditions of this assignment shall inure to the benefit of ASSIGNEE, its successors, assigns, and legal representatives, and shall be binding on me, my heirs, legal representatives, and assigns.

Full name of first inventor: Robert J. Lauf

Inventor's Signature: Robert J. Lauf

Date: 5/16/03

Address: 998 West Outer Drive, Oak Ridge, Tennessee 37830

State of Tennessee)
County of Anderson)

On this 16th day of May, 2003, before me, a Notary Public in and for the County and State aforesaid, appeared Robert J. Lauf, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the day and year last above given.

Shelley F. Sproff
Notary Public

SEAL

My Commission Expires: Sept. 12, 2004

Full name of second inventor: Kimberly K. Anderson

Inventor's Signature: Kimberly K. Anderson Date: 5/16/03

Address: 1513 Fair Drive, Knoxville, Tennessee 37918

State of Tennessee)
County of Anderson)

On this 16th day of May, 2003, before me, a Notary Public in and for the County and State aforesaid, appeared Kimberly K. Anderson, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the day and year last above given.

Shelley L. Spifford
Notary Public

SEAL

My Commission Expires: Sept 12, 2004

Full name of third inventor: Frederick C. Montgomery

Inventor's Signature: Frederick C. Montgomery

Date: 5/16/03

Address: 102 Halsted Court, Oak Ridge, Tennessee 37830

State of Tennessee)
County of Anderson)

On this 16th day of May, 2003, before me, a Notary Public in and for the County and State aforesaid, appeared Frederick C. Montgomery, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the day and year last above given.

Shelley L. Sheppard
Notary Public

SEAL

My Commission Expires: Sept. 12, 2004