

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
EFFECTIVE DATE:	09/15/2005

**CONVEYING PARTY DATA**

Name	Execution Date
Tommy J Phelps	09/09/2005
Robert J Lauf	09/09/2005
Yul Roh	09/15/2005

**RECEIVING PARTY DATA**

Name:	UT-Battelle, LLC
Street Address:	One Bethel Valley Road
Internal Address:	4500N, MS-6258
City:	Oak Ridge
State/Country:	TENNESSEE
Postal Code:	37831-6258

**PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	11227586

**CORRESPONDENCE DATA**

Fax Number: (865)574-0381  
*Correspondence will be sent via US Mail when the fax attempt is unsuccessful.*  
 Phone: (865) 574-4178  
 Email: bowmanke@ornl.gov  
 Correspondent Name: Joseph A. Marasco  
 Address Line 1: One Bethel Valley Road  
 Address Line 2: 4500N, MS-6258  
 Address Line 4: Oak Ridge, TENNESSEE 37831-6258

ATTORNEY DOCKET NUMBER:	1521.0
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**CH \$40.00 11227586**

NAME OF SUBMITTER:

Karen E. Bowman

**Total Attachments: 5**

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RECORDATION FORM COVER SHEET  
PATENTS ONLY

OMB No. 0651-0027 (exp. 6/30/2005)

Tab settings

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

1. Name of conveying party(ies):

Tommy J. Phelps  
Robert J. Lauf  
Yul Roh

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

3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other \_\_\_\_\_

Execution Date: 9/9/2005, 9/9/2005, 9/15/2005

2. Name and address of receiving party(ies)

Name: UT-Battelle, LLC

Internal Address: P.O. Box 2008

MS-6258

Street Address: One Bethel Valley Road

City: Oak Ridge State: TN Zip: 37831-6258

Additional name(s) & address(es) attached?  Yes  No

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) 11/227,586

B. Patent No. (s) \_\_\_\_\_

Additional numbers attached?  Yes  No

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

Name: Joseph A. Marasco

Internal Address: UT-Battelle, LLC

P.O. Box 2008 MS-6258

Street Address: One Bethel Valley Road

City: Oak Ridge State: TN Zip: 37831-6258

6. Total number of applications and patents involved:

7. Total fee (37 CFR 3.41).....\$ 40

- Enclosed
- Authorized to be charged to deposit account

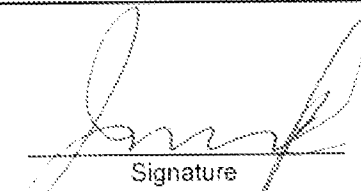
8. Deposit account number:

13-1958

DO NOT USE THIS SPACE

9. Signature.

Joseph A. Marasco  
Name of Person Signing



Signature

OCT 11 2005

Date

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

ASSIGNMENT

WHEREAS, we the below-named inventors whose residence and post office are as stated below, have invented certain new and useful improvements in

**FERMENTATIVE PROCESS FOR MAKING INORGANIC NANOPARTICLES**

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

WHEREAS, UT-BATTELLE, LLC, a limited liability company of the State of Tennessee, having an office at One Bethel Valley Road, P. O. Box 2008, Oak Ridge, Tennessee 37831-6258, hereinafter referred to as "ASSIGNEE," is desirous of acquiring the entire right, title and interest of the undersigned in the Subject Invention and to any Letters Patent that may be granted therefor in the United States of America and in any and all foreign countries.

NOW, THEREFORE, in accordance with the terms of our employment agreement with ASSIGNEE and for good and valuable consideration, the receipt of which is hereby acknowledged, we hereby assign to ASSIGNEE our 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 therefor on the Subject Invention.

We 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, we hereby agree to communicate to said ASSIGNEE or its representatives any facts known 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.

We 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 us, our heirs, legal representatives, and assigns

Full name of inventor: **Tommy J. Phelps**

Signature: Tommy J Phelps Date: Sept 9-2005

Residence: 2708 Pine Hill Drive Knoxville, Tennessee 37932

Post Office Address: 2708 Pine Hill Drive Knoxville, Tennessee 37932

State of Tennessee )  
County of Roane )

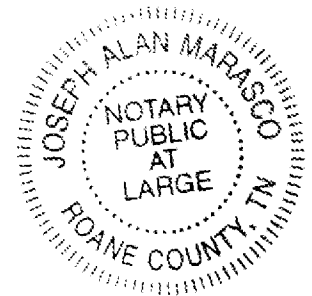
On this 9 day of SEPTEMBER, 2005, before me, a Notary Public in and for the County and State aforesaid, appeared **Tommy J. Phelps** to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

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

Joseph Alan Marasco  
Notary Public

SEAL  
My Commission Expires:

**My Commission Expires June 12, 2006.**



Full name of inventor: **Robert J. Lauf**

Signature: Robert J. Lauf Date: 9/9/05

Residence: 998 West Outer Drive, Oak Ridge, TN 37830

Post Office Address: 998 West Outer Drive, Oak Ridge, TN 37830

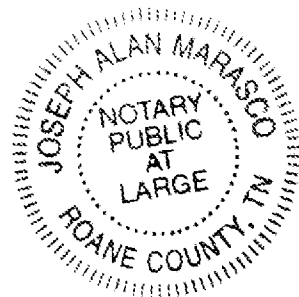
State of Tennessee )  
County of Roane )

On this 9 day of SEPTEMBER 2005, 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.

[Handwritten Signature]  
Notary Public

SEAL  
My Commission Expires:  
My Commission Expires June 12, 2006.



Docket No. 1521

Full name of inventor: **Yul Roh**

Signature:  Date: Sept 15, 2005

Residence: Lotte Apt 105-1402, Ilgok-Dong, Buk-Gu, Gwangju, 500-160, South Korea

Post Office Address: Lotte Apt 105-1402, Ilgok-Dong, Buk-Gu, Gwangju, 500-160, South Korea