

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| Petro Maksymovych | 09/12/2013 |
| 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: | 13911914 |
| CORRESPONDENCE DATA | |
| Fax Number: | 8655740381 |
| <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> | |
| Phone: | (865) 574-4178 |
| Email: | warfielde@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: | 2930.1 |
| NAME OF SUBMITTER: | Elizabeth Warfield |
| Signature: | /Elizabeth Warfield/ |
| Date: | 09/24/2013 |
| Total Attachments: 3 source=Joe UTB Assignment Coversheet#page1.tif source=2930.1 UTB Assignment#page1.tif source=2930.1 UTB Assignment#page2.tif | |

CH \$40.00 13911914

RECORDATION FORM COVER SHEET PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)
Petro Maksymovych

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

2. Name and address of receiving party(ies)
Name: UT-Battelle, LLC
Internal Address: 4500N, MS-6258
Street Address: One Bethel Valley Road
City: Oak Ridge
State: TN
Country: USA Zip: 37831-6258
Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance/Execution Date(s):
Execution Date(s) 09/12/2013

Assignment Merger
 Security Agreement Change of Name
 Joint Research Agreement
 Government Interest Assignment
 Executive Order 9424, Confirmatory License
 Other _____

4. Application or patent number(s): This document is being filed together with a new application.

A. Patent Application No.(s)
13/911,914

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address to whom correspondence concerning document should be mailed:
Name: Joseph A. Marasco
Internal Address: UT-Battelle, LLC
Street Address: One Bethel Valley Road
4500N, MS-6258
City: Oak Ridge
State: TN Zip: 37831-6258
Phone Number: (865) 574-4178
Fax Number: (865) 574-0381
Email Address: marascoja@ornl.gov

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

Authorized to be charged by credit card
 Authorized to be charged to deposit account
 Enclosed
 None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____
Expiration Date _____

b. Deposit Account Number 13-1958
Authorized User Name Elizabeth Warfield

9. Signature: _____ /Joseph A. Marasco/ _____ 09/18/2013
Signature Date

Joseph A. Marasco, Reg. No. 32,798
Name of Person Signing

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

ASSIGNMENT

WHEREAS, I the below-named inventor whose residence is as stated below, have an interest in an invention entitled:

Electronic Thermometry in Tunable Tunnel Junction

(hereinafter referred to as "Subject Invention") for which are described in United States Patent Application No. 13/911,914 filed on June 6, 2013, 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 my entire right, title and interest of the undersigned in the same;

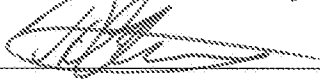
NOW, THEREFORE, in accordance with the terms of my employment agreement with ASSIGNEE and for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby assign and transfer to ASSIGNEE and its successors in interest my entire right, title and interest in the Subject Invention 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 patent applications therefor 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 Inventor: Petro Maksymovych

Signature:  Date: 09/12/2013

Residence: 1530 Centervue Crossing Way, Apt. 207, Knoxville, Tennessee 37932