

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT2708674

SUBMISSION TYPE:	NEW ASSIGNMENT						
NATURE OF CONVEYANCE:	ASSIGNMENT						
CONVEYING PARTY DATA							
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>JAMES E. PARKS II</td> <td>12/11/2013</td> </tr> <tr> <td>WILLIAM P. PARTRIDGE JR</td> <td>12/11/2013</td> </tr> </tbody> </table>		Name	Execution Date	JAMES E. PARKS II	12/11/2013	WILLIAM P. PARTRIDGE JR	12/11/2013
Name	Execution Date						
JAMES E. PARKS II	12/11/2013						
WILLIAM P. PARTRIDGE JR	12/11/2013						
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							
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>14051788</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14051788		
Property Type	Number						
Application Number:	14051788						
CORRESPONDENCE DATA							
Fax Number:	(865)574-0381						
Phone:	(865) 574-4179						
Email:	vanceke@oml.gov						
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>							
Correspondent Name:	COLIN L. CINI						
Address Line 1:	ONE BETHEL VALLEY ROAD						
Address Line 2:	4500N, MS-6258						
Address Line 4:	OAK RIDGE, TENNESSEE 37831-6258						
ATTORNEY DOCKET NUMBER:	3087 (UTB)						
NAME OF SUBMITTER:	KAREN E. VANCE						
Signature:	/KE Vance/						

Date:

01/31/2014

Total Attachments: 3

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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)
 James E. Parks, II
 William P. Partridge, Jr.

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) 12/11/2013

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)
14/051,788

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address to whom correspondence concerning document should be mailed:
 Name: Colin L. Cini
 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) 574-4179
 Fax Number: (865) 574-0381
 Email Address: cinicl@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 Karen E. Bowman

9. Signature: _____ /Colin L. Cini/ _____ 01/31/2014
 Signature Date

Colin L. Cini, Reg. No. 51,563
 Name of Person Signing

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

ASSIGNMENT

WHEREAS, we the below-named inventors whose residences are as stated below, have an interest in an invention entitled:

EGR Distribution and Fluctuation Probe Based on CO₂ Measurements

(hereinafter referred to as "Subject Invention") for which are described in United States Patent Application No. 14/051,788 filed on October 11, 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 our entire right, title and interest of the undersigned in the same;

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 and transfer to ASSIGNEE and its successors in interest 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 patent 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 to us 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: **James E. Parks, II**

Signature:  Date: 12-11-2013

Residence: 1912 Breezy Ridge Trail, Knoxville, Tennessee 37922

Full Name of Inventor: **William P. Partridge, Jr.**

Signature:  Date: 12-11-13

Residence: 852 West Outer Drive, Oak Ridge, Tennessee 37830