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

Docket #1232

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

1. Name of conveying party(ies):

5-13-03

Howard D. Haynes Daryl F. Cox and
Donald E. WelchAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

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

Execution Date: May 13, 2003

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 ☒ No

4. Application number(s) or patent number(s):

10437630

If this document is being filed together with a new application, the execution date of the application is: 5/13/2003

A. Patent Application No.(s) _____

B. Patent No.(s) _____

Additional numbers attached? ☐ Yes ☒ No

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

Name: Kirk A. Wilson

Internal Address: P. O. Box 2008

MS 6498

Street Address: 111B Union Valley Road

City: Oak Ridge State: TN Zip: 37830

6. Total number of applications and patents involved: 1

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

- ☐ Enclosed
☒ Authorized to be charged to deposit account

8. Deposit account number:

13-1958

DO NOT USE THIS SPACE

9. Signature.

Kirk A. Wilson

Name of Person Signing

Signature

May 13, 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

05/21/2003 TDIAZI 00000003 131958 10437630

01 FC:6021

40.00 CH

PATENT
REEL: 014080 FRAME: 0542

ASSIGNMENT

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

Electric Fuel Pump Condition Monitor System Using Electrical Signature Analysis

(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 111-B Union Valley Road, P. O. Box 2008, Oak Ridge, Tennessee 37831-6498, 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 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: Howard D. Haynes

Signature: Howard D. Haynes Date: MAY 13, 2003

Residence: Knoxville, Tennessee

Post Office Address: 549 Annandale Road, Knoxville, Tennessee 37922

State of Tennessee)

County of KNOX)

On this 13th day of May, 20 03, before me, a Notary Public in and for the County and State aforesaid, appeared Howard D. Haynes 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.

Keith A. Wilson
Notary Public

SEAL

My Commission Expires: March 30, 2005

Full name of inventor: Daryl F. Cox

Signature: Daryl F. Cox Date: May 13, 2003

Residence: Knoxville, Tennessee

Post Office Address: 12006 Willingham Drive, Knoxville, Tennessee 37922

State of Tennessee)
County of Knox)

On this 13th day of May, 2003, before me, a Notary Public in and for the County and State aforesaid, appeared Daryl F. Cox 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.

Kirk A Wilson
Notary Public

SEAL
My Commission Expires: March 30, 2005

Full name of inventor: Donald E. Welch

Signature: Donald E. Welch Date: May 13, 2003

Residence: Oak Ridge, Tennessee

Post Office Address: 103 Maltese Lane, Oak Ridge, Tennessee 37830

State of Tennessee)
County of KNOX)

On this 13th day of May, 20 03, before me, a Notary Public in and for the County and State aforesaid, appeared Donald E. Welch 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.

Kirk A. Wilson
Notary Public

SEAL
My Commission Expires: March 30, 2005