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PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------|----------------|
| JASON T RYAN | 05/22/2014 |
| JASON CAMPBELL | 05/22/2014 |
| KIN P CHEUNG | 05/22/2014 |

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 14244494 |

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| ATTORNEY DOCKET NUMBER: | 13-004 |
|-------------------------|----------------------|
| NAME OF SUBMITTER: | BRENDA L. THOMASSON |
| SIGNATURE: | /Brenda I thomasson/ |
| DATE SIGNED: | 05/28/2014 |

Total Attachments: 2

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REEL: 032974 FRAME: 0738

PATENT -

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PATENT REEL: 032974 FRAME: 0739 NIST Docket number: 13-004

ASSIGNMENT OF PATENT RIGHTS

We, JASON T. RYAN, residing in FREDERICK, MARYLAND, JASON CAMPBELL, residing

in FREDERICK, and KIN P. CHEUNG, residing in ROCKVILLE, MARYLAND invented

"ELECTRON SPIN RESONANCE SPECTROMETER AND METHOD FOR USING SAME."

and have filed an application for United States Letters Patent, Serial Number 14/244,494 on

April 3, 2014.

The invention was made while we were employees of the United States Department of

Commerce and under such circumstances that applicable laws and regulations render the patent

rights assignable to the United States. The United States of America, represented by the

Secretary of Commerce, wishes to acquire these rights.

Therefore, we assign to the United States of America, as represented by the Secretary of

Commerce, our full and exclusive world-wide rights to this invention. As consideration for this

Assignment, we will be treated as inventors whose rights are assigned to the United States, for

royalty sharing purposes, if royalties are ever collected, as explained in Section 3710c of Title 15

of the United States Code. This invention and its derivative applications in the United States

Patent and Trademark Office and United States Letters Patent are to be held by the United States

of America for the full term for which such Letters Patent may be granted as completely as they

would have been held by us had we not made this assignment.

PATENT **REEL: 032974 FRAME: 0740**

We agree to make, execute, and deliver to the Secretary of Commerce all documents in such usual or other forms, terms, or contents as may be required by the Secretary for the prosecution of all applications arising from this invention, as well as after issuance of Letters Patent, and for the settlement of any interference or other action or proceeding, these applications and Letters Patent may encounter. We will aid the United States of America in every way to protect the invention as requested by the Secretary, except that any expenses arising through such assistance will be borne, through proper arrangement, by the United States of America.

We warrant that there are no outstanding assignments, grants, liens, encumbrances, or agreements, oral, written, or implied, that will impair the interests conveyed in this assignment at the time we execute this instrument.

IN TESTIMONY WHEREOF, we sign

JASON T. RYAN

JASON CAMPBELL

KIN P. CHEUNG

05-22-14

DATE

Zar (14) Date

\$/32//4 DATE

PATENT REEL: 032974 FRAME: 0741

RECORDED: 05/28/2014