502667773 02/05/2014

PATENT ASSIGNMENT COVER SHEET

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

CONVEYING PARTY DATA

| Name | Execution Date |
|-------------------|----------------|
| JOHN MAGIE COFFIN | 11/26/2013 |
| DAMIAN W. ASHMEAD | 02/05/2014 |
| TODD C. STROTHER | 11/27/2013 |

RECEIVING PARTY DATA

| Name: | Thermo Electron Scientific Instruments LLC | |
|-----------------|--|--|
| Street Address: | 5225 Verona Road | |
| City: | Madison | |
| State/Country: | WISCONSIN | |
| Postal Code: | 53711 | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 13931348 |

CORRESPONDENCE DATA

Fax Number: (408)965-6010 **Phone**: 408-965-6048

Email: USSJO.IP@thermofisher.com

Correspondence will be sent via US Mail when the email attempt is unsuccessful.

Correspondent Name: CARINA FRAZER, THERMO FISHER SCIENTIFIC

Address Line 1: 355 RIVER OAKS PARKWAY

Address Line 2: IP DEPT.

Address Line 4: SAN JOSE, CALIFORNIA 95134

| | PATENT |
|-------------------------|-----------------|
| Signature: | /Carina Frazer/ |
| NAME OF SUBMITTER: | CARINA FRAZER |
| ATTORNEY DOCKET NUMBER: | 6516US1/NAT |

502667773 REEL: 032147 FRAME: 0001

| Date: | 02/05/2014 |
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| Total Attachments: 4 source=6516US1-NAT_Assignment#page1 source=6516US1-NAT_Assignment#page2 source=6516US1-NAT_Assignment#page3 source=6516US1-NAT_Assignment#page4 | tif tif |

PATENT REEL: 032147 FRAME: 0002

ASSIGNMENT

WHEREAS WE, John Magie COFFIN of 3245North Road, Blue Mounds, WI 53517; Damian W. ASHMEAD of 17 Maureen Dr., Middletown, DE 19709; and Todd C. STROTHER of 235 Parador Place, Cottage Grove, WI 53527, have invented certain new and useful improvements, entitled Motorized Variable Path Length Cell for Spectroscopy for which invention we have executed an application for Letters Patent in the United States that was filed on June 28, 2013 with the U.S. Patent and Trademark Office as Serial No. 13/931,348 which discloses and identifies the invention.

Whereas, THERMO ELECTRON SCIENTIFIC INSTRUMENTS LLC, a limited liability company formed in the State of Delaware, having a place of business at 5225 Verona Road, Madison, Wisconsin 53711, (hereinafter referred to as assignee) is desirous of acquiring the entire right, title, and interest in and to said invention, said application and the Letters Patent to be obtained therefor;

Now, therefore, for good and valuable consideration, the receipt and sufficiency whereof are hereby acknowledged, we hereby sell, assign, and set over unto the assignee and said assignee's successors, assigns, and designees, the entire right, title, and interest in and to said invention, said application, and the Letters Patent, both foreign and domestic, that may or shall issue thereon; and we do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to the abovementioned assignee.

We hereby authorize the above-mentioned assignee or its legal representative to insert in this instrument the filing date and serial number of our said application or any other information that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Upon said consideration, we convey to said assignee the right to make application in its own behalf for protection of said invention in countries foreign to the United States and where expedient to claim under the International Convention or other international arrangement for any such application the date of said United States application (or other application if any there be) in priority to other applications; and we do hereby covenant and agree with the said assignee that we will not execute any writing or do any act whatsoever conflicting with these presents, and that we will at any time upon request, at the expense of the said assignee, execute such additional assignments and other writings and do such additional acts as said assignee may deem necessary or desirable to perfect the assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional, renewal, continuation, continuation-in-part, reissued or extended Letters Patent of the United States or of any and all foreign countries on said invention, and in enforcing any rights or chose in action accruing as a result of such application or patents, by giving testimony in any proceedings or transactions involving such application or patents, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of the assigns and legal representatives of both parties. We hereby agree that the transfer of rights made by this instrument is effective as of the filing date of the application written above.

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| IN WITNESS WHEREOF, I hereto set my hand and seal on Nov Ember 26, 2013. |
|---|
| Joyn Magie COFFIN |
| John/Magie COFFIN |
| State of WISCONSIN : |
| |
| County of DANE: |
| |
| |
| On 26 Nover BER 2013 before me, William R. Frach, Notary Public, |
| personally appeared John Magie COFFIN who proved to me on the basis of satisfactory evidence to |
| be the person whose name is subscribed to the within instrument and acknowledged to me that he |
| executed the same in his authorized capacity, and that by his signature on the instrument the person, |
| or the entity upon behalf of which the person acted, executed the instrument. |
| I certify under PENALTY OF PERJURY under the laws of the State of WISCONSIN that the |
| foregoing paragraph is true and correct. |
| |
| |
| WITNESS my hand and official seal. |
| SI JAM R. AM |
| |
| Signature: MINISTAR, BY |
| My commission expires: 15 Feb 2015 No.: PUDLIC : |

| IN WITNESS WHEREOF, I hereto set my hand and seal on Feb. 5 | _, 2014. |
|---|---------------------|
| | |
| Darnian W. ASHMEAD | |
| | |
| Delewere State of WISCONSIN: | |
| : | |
| County of Wew Cestle: | |
| | |
| Onfebruary 5, 2014 before me, Alex Kiplin | , Notary Public, |
| personally appeared Damian W. ASHMEAD who proved to me on the basis of sa | disfactory evidence |
| to be the person whose name is subscribed to the within instrument and acknowle | edged to me that he |
| executed the same in his authorized capacity, and that by his signature on the ins | trument the person, |
| or the entity upon behalf of which the person acted, executed the instrument. | |
| I certify under PENALTY OF PERJURY under the laws of the State of WI | SCONSIN that the |
| foregoing paragraph is true and correct. | |
| | |
| WITNESS my hand and official seal. | |
| Signature: All Mall | |
| My commission expires: | They was a second |
| ALEX KAPLAN MOTARY PUBLIC, STATE OF DELAMARE MY COMMISSION EXPIRES JANUARY 31, 2015 | (Seal) |

| IN WITNESS WHEREOF, I hereto set my hand and seal on Nov 27, 2013. |
|--|
| Todd C. Stran |
| Todd C. STROTHER |
| |
| State of WISCONSIN : |
| |
| County of Dane: |
| |
| On //-27-13 before me, Marita Ke///, Notary Public |
| personally appeared $\underline{Todd\ C.\ STROTHER}$ who proved to me on the basis of satisfactory evidence to |
| be the person whose name is subscribed to the within instrument and acknowledged to me that he |
| executed the same in his authorized capacity, and that by his signature on the instrument the person |
| or the entity upon behalf of which the person acted, executed the instrument. |
| I certify under PENALTY OF PERJURY under the laws of the State of WISCONSIN that the |
| foregoing paragraph is true and correct. |
| |
| |
| WITNESS my hand and official seal. |
| |
| Signature: Marela Lelley |
| My commission expires: (Seal) |
| |
| WILLIAM BITA KENTE |
| MINIMARIA CONTRACTOR |
| NOTARL I |
| NOTAR A PUBLIC PUBLIC WISCONSMITH |
| THE OF WISCONSTITUTE |
| 4 |

PATENT REEL: 032147 FRAME: 0006

RECORDED: 02/05/2014