

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3500125

|                                                                                                                                                                                                 |                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| <b>SUBMISSION TYPE:</b>                                                                                                                                                                         | NEW ASSIGNMENT                          |
| <b>NATURE OF CONVEYANCE:</b>                                                                                                                                                                    | ASSIGNMENT                              |
| <b>CONVEYING PARTY DATA</b>                                                                                                                                                                     |                                         |
| <b>Name</b>                                                                                                                                                                                     | <b>Execution Date</b>                   |
| ALEXANDER MAKAROV                                                                                                                                                                               | 12/22/2008                              |
| DMITRY E. GRINFELD                                                                                                                                                                              | 12/22/2008                              |
| MIKHAIL A. MONASTYRSKIY                                                                                                                                                                         | 12/22/2008                              |
| <b>RECEIVING PARTY DATA</b>                                                                                                                                                                     |                                         |
| <b>Name:</b>                                                                                                                                                                                    | Thermo Fisher Scientific (Bremen) GmbH  |
| <b>Street Address:</b>                                                                                                                                                                          | Hanna-Kunath-Str. 11                    |
| <b>City:</b>                                                                                                                                                                                    | Bremen                                  |
| <b>State/Country:</b>                                                                                                                                                                           | GERMANY                                 |
| <b>Postal Code:</b>                                                                                                                                                                             | 28199                                   |
| <b>PROPERTY NUMBERS Total: 1</b>                                                                                                                                                                |                                         |
| <b>Property Type</b>                                                                                                                                                                            | <b>Number</b>                           |
| <b>Application Number:</b>                                                                                                                                                                      | 14748582                                |
| <b>CORRESPONDENCE DATA</b>                                                                                                                                                                      |                                         |
| <b>Fax Number:</b>                                                                                                                                                                              | (408)965-6010                           |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> |                                         |
| <b>Phone:</b>                                                                                                                                                                                   | 408-965-6048                            |
| <b>Email:</b>                                                                                                                                                                                   | USSJO.IP@thermofisher.com               |
| <b>Correspondent Name:</b>                                                                                                                                                                      | CARINA FRAZER, THERMO FISHER SCIENTIFIC |
| <b>Address Line 1:</b>                                                                                                                                                                          | 355 RIVER OAKS PARKWAY                  |
| <b>Address Line 2:</b>                                                                                                                                                                          | IP DEPT.                                |
| <b>Address Line 4:</b>                                                                                                                                                                          | SAN JOSE, CALIFORNIA 95134              |
| <b>ATTORNEY DOCKET NUMBER:</b>                                                                                                                                                                  | 3644US4/NAT                             |
| <b>NAME OF SUBMITTER:</b>                                                                                                                                                                       | CARINA FRAZER                           |
| <b>SIGNATURE:</b>                                                                                                                                                                               | /Carina Frazer/                         |
| <b>DATE SIGNED:</b>                                                                                                                                                                             | 08/26/2015                              |
| <b>Total Attachments: 6</b>                                                                                                                                                                     |                                         |
| source=3644US4-NAT_Assignment#page1.tif                                                                                                                                                         |                                         |
| source=3644US4-NAT_Assignment#page2.tif                                                                                                                                                         |                                         |
| source=3644US4-NAT_Assignment#page3.tif                                                                                                                                                         |                                         |

source=3644US4-NAT\_Assignment#page4.tif

source=3644US4-NAT\_Assignment#page5.tif

source=3644US4-NAT\_Assignment#page6.tif

## ASSIGNMENT

---

WHEREAS, I, Alexander MAKAROV

of Thomas-Mann-Strasse 10A, 28213 Bremen, Germany

have invented certain new and useful improvements as described in an International Patent Application entitled

**Multireflection time-of-flight mass spectrometer**

being identifiable under the Patent Co-operation Treaty by Serial No.

PCT/GB2008/004231, filed on 22 December 2008; and in the United States Patent

and Trademark Office by Serial No. 12/809,867, filed on June 21, 2010 ;

and Serial No. 13/790,760, filed on March 8, 2013;

and Serial No. 13/957,776, filed on Aug. 2, 2013;

WHEREAS, THERMO FISHER SCIENTIFIC (BREMEN) GMBH,

a corporation organized and existing under the laws of Germany, and having offices

at Hannah-Kunath-Str. 11, 28199 Bremen, Germany (Assignee), is

desirous of acquiring the entire right, title and interest in and to the invention, the

application, and any and all Letters Patent or similar legal protection, foreign or

domestic, to be obtained therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy

of which is hereby acknowledged, I transfer to Assignee, its successors and assigns,

my entire right, title and interest in and to the invention, the above-identified

application, corresponding domestic and foreign applications, all Letters Patents or

similar legal protection issuing thereon, and all rights and benefits under any

applicable treaty or convention; and I authorize the Commissioner of Patents and

Trademarks of the United States or foreign equivalent thereof to issue the Letters

Patent or similar legal protection to the Assignee;

- 2 -

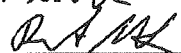
I authorize the Assignee, its successors and assigns, to insert in this instrument the United States filing date and serial number of the application when ascertained.

I authorize the Assignee, its successors and assigns, or anyone it may properly designate, to apply for Letters Patent or similar legal protection, in its own name if desired, in any and all foreign countries;

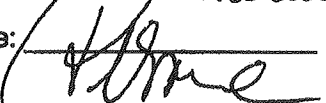
I represent to the Assignee, its successors and assigns, that I have not and shall not execute any writing or do any act whatsoever conflicting with this Assignment. I, my executors or administrators, will at any time upon request, without additional consideration, but at the expense of the Assignee, its successors and assigns, execute such additional writings and do such additional acts as the Assignee, its successors and assigns, may deem desirable to perfect its enjoyment of this grant, and render all assistance in making application for and obtaining, maintaining, and enforcing the Letters Patent or similar legal protection on the invention in any and all countries.

  
Alexander MAKAROV

Date: 22 December 2008

Witness R. Muhl  
Signature: 

Address:  
Thermo Fisher Scientific (Bremen) GmbH  
Hanna-Kunath-Str. 11  
28199 BREMEN  
GERMANY

Witness P.-A. Permann  
Signature: 

Address:  
Thermo Fisher Scientific (Bremen) GmbH  
Hanna-Kunath-Str. 11  
28199 BREMEN  
GERMANY

357542; 8K; MTD

ASSIGNMENT

GRINFELD DG 8/25/15  
WHEREAS, I, DMITRY E. GRINFELD—

of 15-16 Kominterna Str., Ramenskoye, 140100, Moscow, Russia.

have invented certain new and useful improvements as described in an application  
entitled

Multireflection Time-of-Flight Mass Spectrometer

for Letters Patent of the United States, the application arising out of International  
Application number PCT/GB2008/004231, and/or being identifiable in the United  
States Patent and Trademark Office by Serial No. 13/889,867, filed on June 21, 2010; and Serial No. 13/790,760 filed on March 8, 2013; and Serial No. 13/957,776, filed on Aug. 2, 2013;

WHEREAS, THERMO FISHER SCIENTIFIC (BREMEN) GMBH,

a corporation organized and existing under the laws of Germany and having offices  
at Hanna-Kunath-Str. 11, 28189 BREMEN, Germany ("Assignee"), is desirous of  
acquiring the entire right, title and interest in and to the invention, the application,  
and any and all Letters Patent or similar legal protection, foreign or domestic, to be  
obtained therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt and  
adequacy of which is hereby acknowledged, I transfer to Assignee, its successors  
and assigns, my entire right, title and interest in and to the invention, the above-  
identified application, corresponding domestic and foreign applications, all Letters  
Patents or similar legal protection issuing thereon, and all rights and benefits under  
any applicable treaty or convention; and I authorize the Commissioner of Patents  
and Trademarks of the United States or foreign equivalent thereof to issue the  
Letters Patent of similar legal protection to the Assignee.

- 2 -

I authorize the Assignee, its successors and assigns, or anyone it may properly designate, to insert in this instrument the filing date and serial number of the application when ascertained.

I authorize the Assignee, its successors and assigns, or anyone it may properly designate, to apply for Letters Patent or similar legal protection, in its own name if desired, in any and all foreign countries.

I confirm and state that on 14<sup>th</sup> December 2007, I did for good and valuable consideration assign to the Assignee all right, title and interest in and to UK Patent Application No. 0725086.5, filed on 21<sup>st</sup> December 2007, and entitled Multireflection Time-of-Flight Mass Spectrometer, with full title guarantee.

I represent to the Assignee, its successors and assigns, that I have not and shall not execute any writing or do any act whatsoever conflicting with this Assignment. I, my executors or administrators, will at any time upon request, without additional consideration, but at the expense of the Assignee, its successors and assigns, execute such additional writings and do such additional acts as the Assignee, its successors and assigns, may deem desirable to perfect its enjoyment of this grant, and render all assistance in making application for and obtaining, maintaining, and enforcing the Letters Patent or similar legal protection on the invention in any and all countries.

  
Dmitry E. Grinfeld

GRINFELD

Witness R. Muhl

Signature: 

Address:  
Thermo Fisher Scientific (Bremen) GmbH  
Hanna-Kunath-Str. 11  
28199 BREMEN  
GERMANY

Date: 22 December 2008

  
Witness R. D. Gorman

Signature: 

Address:  
Thermo Fisher Scientific (Bremen) GmbH  
Hanna-Kunath-Str. 11  
28199 BREMEN  
GERMANY

357125, A, P, HO

## ASSIGNMENT

WHEREAS, I, MIKHAIL MONASTYRSKIY

of 13-1-<sup>16</sup> Ferganskaya Str., Moscow, 10844-<sup>9</sup> Russia,

have invented certain new and useful improvements as described in an application entitled

### Multireflection Time-of-Flight Mass Spectrometer

for Letters Patent of the United States, the application arising out of International Application number PCT/GB2008/004231, and/or being identifiable in the United States Patent and Trademark Office by Serial No. 12/809,867,

filed on June 21, 2010; and Serial No. 13/790,760 filed on March 8, 2013; and Serial No. 13/957,776, filed on Aug. 2, 2013;

WHEREAS, THERMO FISHER SCIENTIFIC (BREMEN) GMBH,

a corporation organized and existing under the laws of Germany and having offices at Hanna-Kunath-Str. 11, 28199 BREMEN, Germany ("Assignee"), is desirous of acquiring the entire right, title and interest in and to the invention, the application, and any and all Letters Patent or similar legal protection, foreign or domestic, to be obtained therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, I transfer to Assignee, its successors and assigns, my entire right, title and interest in and to the invention, the above-identified application, corresponding domestic and foreign applications, all Letters Patents or similar legal protection issuing thereon, and all rights and benefits under any applicable treaty or convention; and I authorize the Commissioner of Patents and Trademarks of the United States or foreign equivalent thereof to issue the Letters Patent of similar legal protection to the Assignee.

- 2 -

I authorize the Assignee, its successors and assigns, or anyone it may properly designate, to insert in this instrument the filing date and serial number of the application when ascertained.


I authorize the Assignee, its successors and assigns, or anyone it may properly designate, to apply for Letters Patent or similar legal protection, in its own name if desired, in any and all foreign countries.

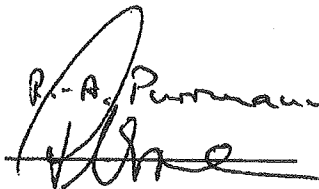
I confirm and state that on 14<sup>th</sup> December 2007, I did for good and valuable consideration assign to the Assignee all right, title and interest in and to UK Patent Application No. 0725066.5, filed on 21<sup>st</sup> December 2007, and entitled Multireflection Time-of-Flight Mass Spectrometer, with full title guarantee.

I represent to the Assignee, its successors and assigns, that I have not and shall not execute any writing or do any act whatsoever conflicting with this Assignment. I, my executors or administrators, will at any time upon request, without additional consideration, but at the expense of the Assignee, its successors and assigns, execute such additional writings and do such additional acts as the Assignee, its successors and assigns, may deem desirable to perfect its enjoyment of this grant, and render all assistance in making application for and obtaining, maintaining, and enforcing the Letters Patent or similar legal protection on the invention in any and all countries.

  
Mikhail Monastyrskiy

Date: 22 December 2008

Witness *R. Malik*  
Signature: 

Witness *P.-A. Purnan*  
Signature: 

Address:  
Thermo Fisher Scientific (Bremen) GmbH  
Hanna-Kunath-Str. 11  
28199 BREMEN  
GERMANY

Address:  
Thermo Fisher Scientific (Bremen) GmbH  
Hanna-Kunath-Str. 11  
28199 BREMEN  
GERMANY

357128; AJF; KC