

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

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>Robert Gerlach</td><td>07/07/2008</td></tr><tr><td>Mostafa Maazouz</td><td>07/07/2008</td></tr><tr><td>Trevor Dingle</td><td>07/14/2008</td></tr></tbody></table>		Name	Execution Date	Robert Gerlach	07/07/2008	Mostafa Maazouz	07/07/2008	Trevor Dingle	07/14/2008
Name	Execution Date								
Robert Gerlach	07/07/2008								
Mostafa Maazouz	07/07/2008								
Trevor Dingle	07/14/2008								
RECEIVING PARTY DATA									
Name:	FEI Company								
Street Address:	5350 NE Dawson Creek Dr.								
City:	Hillsboro								
State/Country:	OREGON								
Postal Code:	97124-5793								
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>12141723</td></tr></tbody></table>		Property Type	Number	Application Number:	12141723				
Property Type	Number								
Application Number:	12141723								
CORRESPONDENCE DATA									
Fax Number: (512)306-1963 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
Phone: 5126370800									
Email: patents@sgnlaw.com									
Correspondent Name: Michael O. Scheinberg									
Address Line 1: PO Box 164140									
Address Line 4: Austin, TEXAS 78716-4140									
ATTORNEY DOCKET NUMBER:	F122								
NAME OF SUBMITTER:	David Griner								
Total Attachments: 12 source=F122DINASSIGN#page1.tif source=F122DINASSIGN#page2.tif									

OP \$40.00 12141723

500617878

PATENT
REEL: 021369 FRAME: 0035

source=F122DINASSIGN#page3.tif
source=F122DINASSIGN#page4.tif
source=F122MOSASSIGN#page1.tif
source=F122MOSASSIGN#page2.tif
source=F122MOSASSIGN#page3.tif
source=F122MOSASSIGN#page4.tif
source=F122GERASSIGN#page1.tif
source=F122GERASSIGN#page2.tif
source=F122GERASSIGN#page3.tif
source=F122GERASSIGN#page4.tif

ASSIGNMENT

WHEREAS, I/We, Robert Gerlach, resident of Eagle Mountain, Utah; Mostafa Maazouz, resident of Hillsboro, Oregon; and Trevor Dingle, resident of Bluntisham, Cambridgeshire (hereinafter called the "Assignors"), have invented certain new and useful inventions described in a patent application entitled "In-Chamber Electron Detector," the specification of which:

- ☐ is attached hereto.
- ☒ was filed on June 18, 2008 and assigned U.S. Application No. 12/141,723

WHEREAS, FEI Company, having its principal place of business at 5350 NE Dawson Creek Dr., Hillsboro, OR 97124-5793 (herein called the "Assignee"), is desirous of acquiring and Assignors are desirous of assigning to FEI Company all right, title, and interest in and to said Invention, patents and patent applications on said Invention;

NOW, THEREFORE, Assignors, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, do hereby SELL, ASSIGN and CONVEY unto Assignee all right, title and interest throughout the world in and to said invention, this assignment including, but not being limited to:

1. All applications for patent or like protection on said Invention made by Assignor or his legal representatives, whether in the United States of America or any other country or place anywhere in the world;
2. All substitutions for and divisions, continuations, continuations-in-part, renewals, reissues, extension, and the like of said applications and patents and like grants, including without limitation, those obtained or permissible under past, present and future laws or statutes;
3. All rights of action on account of past, present and future unauthorized use of said

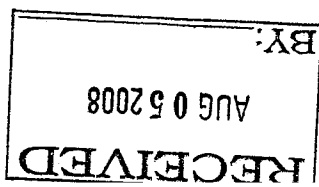
Invention and for infringement of said patents and like protection;

4. The right to file in its name applications for patents and like protection for said
01 Invention in any country or countries foreign to the United States; and

5. All international rights or priority associated with said Invention, applications for patents, patents and like protection.

I/We hereby authorize and request the U.S. Patent and Trademark Office, and all other national patent offices in which corresponding applications are filed, to issue any patents for the said invention to said assignee, of the entire right, title, and interest in and to the same, for his solo use and behoof and for the use and behoof of his legal representatives, to the full end of the term for which said patent may be granted, as fully and entirely as the same would have been held by me had this assignment and sale not been made.

Assignors covenant that Assignors, their heirs, legal representatives, assigns, administrators, and executors will execute all papers and perform such other acts, with expenses if any to be paid by Assignee, as may be reasonably necessary to give Assignee, its successors and assigns, the full benefit of this Assignment. This Assignment shall be binding upon and shall inure to the benefit of the successors, assigns and legal representatives of the parties hereto.



EXECUTED on the date indicated below:

Date: _____

By: _____

Robert Gerlach

State of _____) §

County of _____) §

Before me personally appeared said Robert Gerlach, and acknowledged the foregoing instrument to be his free act and deed this _____ day of _____, 2008.

Notary Public

My Commission Expires: _____

EXECUTED on the date indicated below:

Date: _____

By: _____

Mostafa Maazouz

State of) §

County of) §

Before me personally appeared said Mostafa Maazouz, and acknowledged the foregoing instrument to be his free act and deed this _____ day of _____, 2008.

Notary Public

My Commission Expires: _____

EXECUTED on the date indicated below:

Date: 14-7-2008

By: T. D.

Trevor Dingle
Copper Beech Wood End, Bluntisham
Huntingdon, Cambridgeshire
PE28 3LE Great Britain

ASSIGNMENT

WHEREAS, I/We, Robert Gerlach, resident of Eagle Mountain, Utah; Mostafa Maazouz, resident of Hillsboro, Oregon; and Trevor Dingle, resident of Bluntisham, Cambridgeshire (hereinafter called the "Assignors"), have invented certain new and useful inventions described in a patent application entitled "In-Chamber Electron Detector," the specification of which:

- ☐ is attached hereto.
- ☒ was filed on June 18, 2008 and assigned U.S. Application No. 12/141,723

WHEREAS, FEI Company, having its principal place of business at 5350 NE Dawson Creek Dr., Hillsboro, OR 97124-5793 (herein called the "Assignee"), is desirous of acquiring and Assignors are desirous of assigning to FEI Company all right, title, and interest in and to said Invention, patents and patent applications on said Invention;

NOW, THEREFORE, Assignors, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, do hereby SELL, ASSIGN and CONVEY unto Assignee all right, title and interest throughout the world in and to said invention, this assignment including, but not being limited to:

1. All applications for patent or like protection on said Invention made by Assignor or his legal representatives, whether in the United States of America or any other country or place anywhere in the world;
2. All substitutions for and divisions, continuations, continuations-in-part, renewals, reissues, extension, and the like of said applications and patents and like grants, including without limitation, those obtained or permissible under past, present and future laws or statutes;
3. All rights of action on account of past, present and future unauthorized use of said

Invention and for infringement of said patents and like protection;

4. The right to file in its name applications for patents and like protection for said
01 Invention in any country or countries foreign to the United States; and

5. All international rights or priority associated with said Invention, applications for
patents, patents and like protection.

I/We hereby authorize and request the U.S. Patent and Trademark Office, and all other
national patent offices in which corresponding applications are filed, to issue any patents for the
said invention to said assignee, of the entire right, title, and interest in and to the same, for his
solo use and behoof and for the use and behoof of his legal representatives, to the full end of the
term for which said patent may be granted, as fully and entirely as the same would have been
held by me had this assignment and sale not been made.

Assignors covenant that Assignors, their heirs, legal representatives, assigns,
administrators, and executors will execute all papers and perform such other acts, with expenses
if any to be paid by Assignee, as may be reasonably necessary to give Assignee, its successors
and assigns, the full benefit of this Assignment. This Assignment shall be binding upon and shall
inure to the benefit of the successors, assigns and legal representatives of the parties hereto.

EXECUTED on the date indicated below:

Date: _____

By: _____

Robert Gerlach

State of) §

County of) §

Before me personally appeared said Robert Gerlach, and acknowledged the foregoing instrument to be his free act and deed this _____ day of _____, 2008.

Notary Public

My Commission Expires: _____

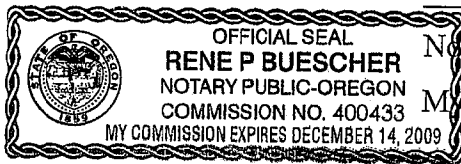
EXECUTED on the date indicated below:

Date: 7/7/08

By: [Signature]
Mostafa Maazouz

State of Oregon) §
County of Washington) §

Before me personally appeared said Mostafa Maazouz, and acknowledged the foregoing instrument to be his free act and deed this 7th day of July, 2008.



Notary Public

My Commission Expires: 12/14/2009

EXECUTED on the date indicated below:

Date: _____

By: _____

Trevor Dingle
Copper Beech Wood End, Bluntisham
Huntingdon, Cambridgeshire
PE28 3LE Great Britain

ASSIGNMENT

WHEREAS, I/We, Robert Gerlach, resident of Eagle Mountain, Utah; Mostafa Maazouz, resident of Hillsboro, Oregon; and Trevor Dingle, resident of Bluntisham, Cambridgeshire (hereinafter called the "Assignors"), have invented certain new and useful inventions described in a patent application entitled "In-Chamber Electron Detector," the specification of which:

☐ is attached hereto.

☒ was filed on June 18, 2008 and assigned U.S. Application No. 12/141,723

WHEREAS, FEI Company, having its principal place of business at 5350 NE Dawson Creek Dr., Hillsboro, OR 97124-5793 (herein called the "Assignee"), is desirous of acquiring and Assignors are desirous of assigning to FEI Company all right, title, and interest in and to said Invention, patents and patent applications on said Invention;

NOW, THEREFORE, Assignors, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, do hereby SELL, ASSIGN and CONVEY unto Assignee all right, title and interest throughout the world in and to said invention, this assignment including, but not being limited to:

1. All applications for patent or like protection on said Invention made by Assignor or his legal representatives, whether in the United States of America or any other country or place anywhere in the world;
2. All substitutions for and divisions, continuations, continuations-in-part, renewals, reissues, extension, and the like of said applications and patents and like grants, including without limitation, those obtained or permissible under past, present and future laws or statutes;
3. All rights of action on account of past, present and future unauthorized use of said

Invention and for infringement of said patents and like protection;

4. The right to file in its name applications for patents and like protection for said
01Invention in any country or countries foreign to the United States; and

5. All international rights or priority associated with said Invention, applications for
patents, patents and like protection.

I/We hereby authorize and request the U.S. Patent and Trademark Office, and all other
national patent offices in which corresponding applications are filed, to issue any patents for the
said invention to said assignee, of the entire right, title, and interest in and to the same, for his
solo use and behoof and for the use and behoof of his legal representatives, to the full end of the
term for which said patent may be granted, as fully and entirely as the same would have been
held by me had this assignment and sale not been made.

Assignors covenant that Assignors, their heirs, legal representatives, assigns,
administrators, and executors will execute all papers and perform such other acts, with expenses
if any to be paid by Assignee, as may be reasonably necessary to give Assignee, its successors
and assigns, the full benefit of this Assignment. This Assignment shall be binding upon and shall
inure to the benefit of the successors, assigns and legal representatives of the parties hereto.

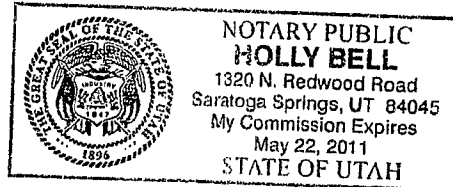
EXECUTED on the date indicated below:

Date: 7-7-08

By: Robert F Gerlach

Robert Gerlach

State of Utah) §
County of Utah) §



Before me personally appeared said Robert Gerlach, and acknowledged the foregoing instrument to be his free act and deed this 7 day of July, 2008.

Holly Bell
Notary Public

My Commission Expires: May 22, 2011

EXECUTED on the date indicated below:

Date: _____

By: _____

Mostafa Maazouz

State of

) §

County of

) §

Before me personally appeared said Mostafa Maazouz, and acknowledged the foregoing instrument to be his free act and deed this _____ day of _____, 2008.

Notary Public

My Commission Expires: _____

EXECUTED on the date indicated below:

Date: _____

By: _____

Trevor Dingle
Copper Beech Wood End, Bluntisham
Huntingdon, Cambridgeshire
PE28 3LE Great Britain