

**RECORDATION FORM COVER SHEET
PATENTS ONLY**

Atty Ref/Docket No.: 1153.151US1

Patent and Trademark Office

To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

David Erickson, Michal Lipson, Allen Yang, Brad Schmidt, Sean Moore

Additional name(s) of conveying party(ies) attached?

[] Yes [X] No

3. Nature of conveyance:

[X] Assignment [] Merger

[] Security Agreement [] Change of Name

[] Other

Execution Date: May 9, 2011, October 4, 2011, October 31, 2011, June 15, 2011, June 16, 2011

2. Name and address of receiving party(ies):

Name: Cornell University

Street Address: 395 Pine Tree Road, Suite 310

City: Ithaca State: NY Zip: 14850Country: United States of America

Additional name(s) & address(es) attached? [] Yes
[X] No

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

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

A. Patent Application No.(s)

B. Patent No.(s)

Serial No. 13/062,867, filed October 28, 2011

Additional numbers attached? [] Yes [X] No

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

Name: Bradley A. Forrest

Address:

Schwegman, Lundberg & Woessner, P.A.
P.O. Box 2938
Minneapolis, MN 55402-0938

6. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41): \$ 40.00

[] Enclosed

[X] Authorized to be charged to deposit account
19-0743

8. Please charge any additional fees or credit any over
payments to our Deposit Account No.: 19-0743

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Bradley A. Forrest/Reg. No. 30,837

Name of Person Signing



Signature

3 June 2013

Date

Total number of pages including cover sheet: 22

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks
Mail Stop Assignment Recordation Services
P.O. Box 1450
Alexandria, VA 22313-1450

Attorney Docket No. 1153.151US1
Client Ref. No. D-4438-03

ASSIGNMENT

WHEREAS, We, **David Erickson**, a citizen of Canada, residing at 205 East Marshall Street, Ithaca, NY 14850, and **Michal Lipson**, a citizen of the United States of America, residing at 49 Murfield Dr., Ithaca, NY 14850, and **Allen Yang**, a citizen of the United States of America, residing at 2610 Hasbrouck Apartments, Ithaca, NY 14850-2646, and **Brad Schmidt**, a citizen of Canada residing at 50 John Street, Apt 311, Toronto, Ontario M5V 3T5, Canada, and **Sean Moore**, a citizen of the United States of America, residing at 8154 Hayes Hollow Road, Colden, NY 14033, have invented certain new and useful improvements in OPTICAL FORCE BASED BIOMOLECULAR ANALYSIS IN SLOT WAVEGUIDES for which an application for Letters Patent in the United States was filed as U.S. Serial No. **13/062,867** on **March 8, 2011**;

AND WHEREAS, **Cornell University**, with its principal place of business at **Cornell Center for Technology, Enterprise & Commercialization ("CCTEC")**, **395 Pine Tree Road, Suite 310, Ithaca, New York 14850 USA**, is entitled to acquire the entire right, title and interest in and to the said improvements and the said Application:

NOW, THEREFORE, for good and valuable consideration, including salary or payment for the making of inventions, or employee benefits, the receipt of which is hereby acknowledged, we, the said inventors, do hereby acknowledge that we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said **Cornell University**, its successors, legal representatives and assigns, the entire right, title and interest throughout the world in, to and under the said improvements, and the said application and all divisions, renewals, and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and we hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said **Cornell University**, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we will communicate to the said **Cornell University**, its successors, legal representatives, and assigns, any facts known to us respecting said improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths and generally do everything possible to aid the said **Cornell University**, its successors, legal representatives, and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

ASSIGNMENT

Client Ref: No. D-4438-03

Assignors: David Erickson et al.

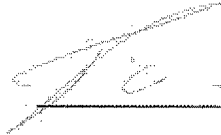
Title: OPTICAL FORCE BASED BIOMOLECULAR ANALYSIS IN SLOT WAVEGUIDES

Page 2 of 6

Docket No: 1153.151US1

Serial Number: 13/062,867

IN TESTIMONY WHEREOF, I have hereunto set my hand this 9 day of May, 2011.



David Erickson

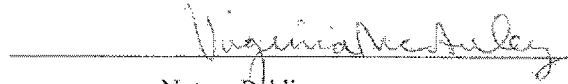
STATE OF New York)

)ss

COUNTY OF Tompkins)

On this 9th day of May, 2011 before me personally appeared David Erickson, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

[SEAL]



Notary Public

VIRGINIA MCAULEY
NOTARY PUBLIC-STATE OF NEW YORK
No. 01614758973
Qualified in Tompkins County
My Commission Expires July 31, 2014

ASSIGNMENT

Client Ref. No. D-4438-03

Assignors: David Erickson et al.

Title: OPTICAL FORCE BASED BIOMOLECULAR ANALYSIS IN SLOT WAVEGUIDES

Page 3 of 6

Docket No: 1153.151US1

Serial Number: 13/062,867

IN TESTIMONY WHEREOF, I have hereunto set my hand this ____ day of
_____, 20____.

Michal Lipson

STATE OF _____)

)ss

COUNTY OF _____)

On this _____ day of _____, 20____ before me personally appeared
Michal Lipson, to me known and known to me to be the person described in and who executed
the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for
the uses and purposes therein set forth.

[SEAL]

Notary Public

ASSIGNMENT

Client Ref. No. D-4438-03

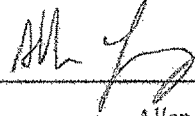
Assignors: David Erickson et al.

Title: OPTICAL FORCE BASED BIOMOLECULAR ANALYSIS IN SLOT WAVEGUIDES

Page 4 of 6

Docket No: T153,151U81

Serial Number: 13/062,867

IN TESTIMONY WHEREOF, I have hereunto set my hand this 31 day ofMay, 20 11.

Allen Yang

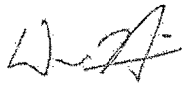
STATE OF California)

)ss

COUNTY OF Santa Barbara)

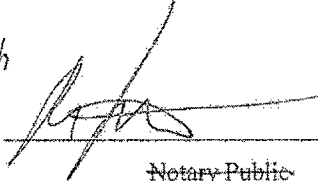
On this 31 day of May, 20 11 before me personally appeared Allen Yang, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

[SEAL]



Wen Hsieh

05/31/11



Notary Public

Witnesses

Ryan Waire

05/31/11

ASSIGNMENT

Client Ref. No. D-4438-03

Assignors: David Erickson et al.

Title: OPTICAL FORCE BASED BIOMOLECULAR ANALYSIS IN SLOT WAVEGUIDES

Page 5 of 6

Docket No: 1153.151US1

Serial Number: 13/062,867

IN TESTIMONY WHEREOF, I have hereunto set my hand this ____ day of
_____, 20____.

Brad Schmidt

STATE OF _____)
_____)ss
COUNTY OF _____)

On this _____ day of _____, 20____ before me personally appeared Brad Schmidt, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

[SEAL]

Notary Public

ASSIGNMENT

Client Ref. No. D-4438-03

Assignors: David Erickson et al.

Title: OPTICAL FORCE BASED BIOMOLECULAR ANALYSIS IN SLOT WAVEGUIDES

Page 6 of 6

Docket No: 1153.151US1

Serial Number: 13/062,867

IN TESTIMONY WHEREOF, I have hereunto set my hand this 16 day ofJune, 2011.Sean Moore

Sean Moore

STATE OF New York)

)ss

COUNTY OF Tompkins)

On this 16th day of June, 2011 before me personally appeared Sean Moore, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

[SEAL]

Notary Public

Virginia McAuley
VIRGINIA MCAULEY
NOTARY PUBLIC-STATE OF NEW YORK
No. 01614758973
Qualified in Tompkins County
My Commission Expires July 31, 2014

Attorney Docket No. 1153.151US1
Client Ref. No. D-4438-03

ASSIGNMENT

WHEREAS, We, **David Erickson**, a citizen of Canada, residing at 205 East Marshall Street, Ithaca, NY 14850, and **Michal Lipson**, a citizen of the United States of America, residing at ~~49 Marshall Dr.~~ ^{Indiecroft Way}, Ithaca, NY 14850, and **Allen Yang**, a citizen of the United States of America, residing at 2610 Hasbrouck Apartments, Ithaca, NY 14850-2646, and **Brad Schmidt**, a citizen of Canada residing at 50 John Street, Apt 311, Toronto, Ontario M5V 3T5, Canada, and **Sean Moore**, a citizen of the United States of America, residing at 8154 Hayes Hollow Road, Colden, NY 14033, have invented certain new and useful improvements in OPTICAL FORCE BASED BIOMOLECULAR ANALYSIS IN SLOT WAVEGUIDES for which an application for Letters Patent in the United States was filed as U.S. Serial No. 13/062,867 on **March 8, 2011**;

AND WHEREAS, **Cornell University**, with its principal place of business at **Cornell Center for Technology, Enterprise & Commercialization ("CCTEC")**, 395 Pine Tree Road, Suite 310, Ithaca, New York 14850 USA, is entitled to acquire the entire right, title and interest in and to the said improvements and the said Application;

NOW, THEREFORE, for good and valuable consideration, including salary or payment for the making of inventions, or employee benefits, the receipt of which is hereby acknowledged, we, the said inventors, do hereby acknowledge that we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said **Cornell University**, its successors, legal representatives and assigns, the entire right, title and interest throughout the world in, to and under the said improvements, and the said application and all divisions, renewals, and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and we hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said **Cornell University**, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we will communicate to the said **Cornell University**, its successors, legal representatives, and assigns, any facts known to us respecting said improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths and generally do everything possible to aid the said **Cornell University**, its successors, legal representatives, and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

ASSIGNMENT

Client Ref. No. D-4438-03

Assignors: David Erickson et al.

Title: OPTICAL FORCE BASED BIOMOLECULAR ANALYSIS IN SLOT WAVEGUIDES

Page 2 of 6

Docket No: 1153.151US1

Serial Number: 13/062,867

IN TESTIMONY WHEREOF, I have hereunto set my hand this ____ day of _____, 20____.

David Erickson

STATE OF _____)

)ss

COUNTY OF _____)

On this _____ day of _____, 20____ before me personally appeared David Erickson, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

[SEAL]

Notary Public

ASSIGNMENT

Client Ref. No. D-4438-03

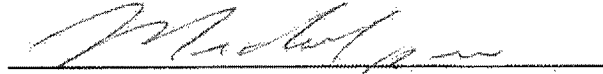
Assignors: David Erickson et al.

Title: OPTICAL FORCE BASED BIOMOLECULAR ANALYSIS IN SLOT WAVEGUIDES

Page 3 of 6

Docket No. 1153,151US)

Serial Number: 13/062,867

IN TESTIMONY WHEREOF, I have hereunto set my hand this 04 day ofOctober, 2011.

Michal Lipson

STATE OF _____)

)ss

COUNTY OF _____)

On this _____ day of _____, 20____ before me personally appeared Michal Lipson, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

[SEAL]

Notary Public

ASSIGNMENT

Client Ref. No. D-4438-03

Assignors: David Erickson et al.

Title: OPTICAL FORCE BASED BIOMOLECULAR ANALYSIS IN SLOT WAVEGUIDES

Page 4 of 6

Docket No: 1153.151US1

Serial Number: 13/062,867

IN TESTIMONY WHEREOF, I have hereunto set my hand this ____ day of
_____, 20____.

Allen Yang

STATE OF _____)

)ss

COUNTY OF _____)

On this _____ day of _____, 20____ before me personally appeared
Allen Yang, to me known and known to me to be the person described in and who executed the
foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the
uses and purposes therein set forth.

[SEAL]

Notary Public

ASSIGNMENT

Client Ref. No. D-4438-03

Assignors: David Erickson et al.

Title: OPTICAL FORCE BASED BIOMOLECULAR ANALYSIS IN SLOT WAVEGUIDES

Page 5 of 6

Docket No: 1153.151US1

Serial Number: 13/062,867

IN TESTIMONY WHEREOF, I have hereunto set my hand this ____ day of
_____, 20____.

Brad Schmidt

STATE OF _____)

)ss

COUNTY OF _____)

On this _____ day of _____, 20____ before me personally appeared Brad Schmidt, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

[SEAL]

Notary Public

ASSIGNMENT

Client Ref. No. D-4438-03

Assignors: David Erickson et al.

Title: OPTICAL FORCE BASED BIOMOLECULAR ANALYSIS IN SLOT WAVEGUIDES

Page 6 of 6

Docket No: 1153.151US1

Serial Number: 13/062,867

IN TESTIMONY WHEREOF, I have hereunto set my hand this ____ day of
_____, 20____.

Sean Moore

STATE OF _____)

)ss

COUNTY OF _____)

On this _____ day of _____, 20____ before me personally appeared Sean Moore, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

[SEAL]

Notary Public

Attorney Docket No. 1153.151US1
Client Ref. No. D-4438-03

ASSIGNMENT

WHEREAS, We, **David Erickson**, a citizen of Canada, residing at 205 East Marshall Street, Ithaca, NY 14850, and **Michal Lipson**, a citizen of the United States of America, residing at 49 Murfield Dr., Ithaca, NY 14850, and **Allen Yang**, a citizen of the United States of America, residing at 2610 Hasbrouck Apartments, Ithaca, NY 14850-2646, and **Brad Schmidt**, a citizen of Canada residing at ~~50 John Street, Apt 311~~ ^{116 George St,} ~~Toronto, Ontario M5V 3T3, Canada,~~ ^{MPH103} and **Sean Moore**, a citizen of the United States of America, residing at 8154 Hayes Hollow Road, Colden, NY 14033, have invented certain new and useful improvements in OPTICAL FORCE BASED BIOMOLECULAR ANALYSIS IN SLOT WAVEGUIDES for which an application for Letters Patent in the United States was filed as U.S. Serial No. 13/062,867 on March 8, 2011;

AND WHEREAS, **Cornell University**, with its principal place of business at **Cornell Center for Technology, Enterprise & Commercialization** ("CCTEC"), 395 Pine Tree Road, Suite 310, Ithaca, New York 14850 USA, is entitled to acquire the entire right, title and interest in and to the said improvements and the said Application:

NOW, THEREFORE, for good and valuable consideration, including salary or payment for the making of inventions, or employee benefits, the receipt of which is hereby acknowledged, we, the said inventors, do hereby acknowledge that we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said **Cornell University**, its successors, legal representatives and assigns, the entire right, title and interest throughout the world in, to and under the said improvements, and the said application and all divisions, renewals, and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and we hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said **Cornell University**, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we will communicate to the said **Cornell University**, its successors, legal representatives, and assigns, any facts known to us respecting said improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths and generally do everything possible to aid the said **Cornell University**, its successors, legal representatives, and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

ASSIGNMENT

Client Ref. No. D-4438-03

Assignors: David Erickson et al.

Title: OPTICAL FORCE BASED BIOMOLECULAR ANALYSIS IN SLOT WAVEGUIDES

Page 2 of 6

Docket No: 1153.151US1

Serial Number: 13/062,867

IN TESTIMONY WHEREOF, I have hereunto set my hand this ____ day of _____, 20____.

David Erickson

STATE OF _____)

)ss

COUNTY OF _____)

On this _____ day of _____, 20____ before me personally appeared David Erickson, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

[SEAL]

Notary Public

ASSIGNMENT

Client Ref. No. D-4438-03

Assignors: David Erickson et al.

Title: OPTICAL FORCE BASED BIOMOLECULAR ANALYSIS IN SLOT WAVEGUIDES

Page 3 of 6

Docket No: 1153.151US1

Serial Number: 13/062,867

IN TESTIMONY WHEREOF, I have hereunto set my hand this ____ day of
_____, 20____.

Michal Lipson

STATE OF _____)

)ss

COUNTY OF _____)

On this _____ day of _____, 20____ before me personally appeared
Michal Lipson, to me known and known to me to be the person described in and who executed
the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for
the uses and purposes therein set forth.

[SEAL]

Notary Public

ASSIGNMENT

Client Ref. No. D-4438-03

Assignors: David Erickson et al.

Title: OPTICAL FORCE BASED BIOMOLECULAR ANALYSIS IN SLOT WAVEGUIDES

Page 4 of 6

Docket No: 1153.151US1

Serial Number: 13/062,867

IN TESTIMONY WHEREOF, I have hereunto set my hand this ____ day of _____, 20____.

Allen Yang

STATE OF _____)

)ss

COUNTY OF _____)

On this _____ day of _____, 20____ before me personally appeared Allen Yang, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

[SEAL]

Notary Public

ASSIGNMENT

Client Ref. No. D-4438-03

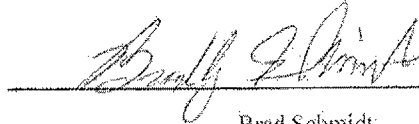
Assignors: David Erickson et al.

Title: OPTICAL FORCE BASED BIOMOLECULAR ANALYSIS IN SLOT WAVEGUIDES

Page 5 of 6

Docket No.: 1153,151US1

Serial Number: 13/062,867

IN TESTIMONY WHEREOF, I have hereunto set my hand this 15 day ofJune, 2011.

Brad Schmidt

STATE OF Toronto, ON, CANADA

)ss

COUNTY OF _____)

On this 15 day of June, 2011, before me personally appeared Brad Schmidt, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

Witness: Jeff Meade

[SEAL]

Jeff Meade

Notary Public

Witness: Brandon DesRoches

ASSIGNMENT

Client Ref. No. D-4438-03

Assignors: David Erickson et al.

Title: OPTICAL FORCE BASED BIOMOLECULAR ANALYSIS IN SLOT WAVEGUIDES

Page 6 of 6

Docket No: 1153.151US1

Serial Number: 13/062,867

IN TESTIMONY WHEREOF, I have hereunto set my hand this ____ day of
_____, 20____.

Sean Moore

STATE OF _____)

)ss

COUNTY OF _____)

On this _____ day of _____, 20____ before me personally appeared Sean Moore, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

[SEAL]

Notary Public

ASSIGNMENT

Client Ref. No. D-4438-03

Assignors: David Erickson et al.

Title: OPTICAL FORCE BASED BIOMOLECULAR ANALYSIS IN SLOT WAVEGUIDES

Page 4 of 6

Docket No: 1153.151US1

Serial Number: 13/062,867

IN TESTIMONY WHEREOF, I have hereunto set my hand this ____ day of
_____, 20____.

Allen Yang

STATE OF _____)

)ss

COUNTY OF _____)

On this _____ day of _____, 20____ before me personally appeared
Allen Yang, to me known and known to me to be the person described in and who executed the
foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the
uses and purposes therein set forth.

[SEAL]

Notary Public

ASSIGNMENT

Client Ref. No. D-4438-03

Assignors: David Erickson et al.

Title: OPTICAL FORCE BASED BIOMOLECULAR ANALYSIS IN SLOT WAVEGUIDES

Page 5 of 6

Docket No: 1153.151US1

Serial Number: 13/062,867

IN TESTIMONY WHEREOF, I have hereunto set my hand this ____ day of
_____, 20____.

Brad Schmidt

STATE OF _____)

)ss

COUNTY OF _____)

On this _____ day of _____, 20____ before me personally appeared Brad Schmidt, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

[SEAL]

Notary Public

ASSIGNMENT

Client Ref. No. D-4438-03

Assignors: David Erickson et al.

Title: OPTICAL FORCE BASED BIOMOLECULAR ANALYSIS IN SLOT WAVEGUIDES

Page 6 of 6

Docket No: 1153.151US1

Serial Number: 13/062,867

IN TESTIMONY WHEREOF, I have hereunto set my hand this ____ day of
_____, 20____.

Sean Moore

STATE OF _____)
_____)ss
COUNTY OF _____)

On this _____ day of _____, 20____ before me personally appeared Sean Moore, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

[SEAL]

Notary Public