

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Eric D. Schwoebel	05/17/2005
James D. Harper	05/17/2005
Martha S. Petrovick	05/17/2005
Frances E. Nargi	05/17/2005
Todd H. Rider	04/19/2005
Kristine E. Hogan	05/20/2005
Richard H. Mathews	05/17/2005
Joseph Lacirignola	05/17/2005
Mark Hennessy	05/17/2005
Trina R. Vian	05/17/2005
Rose M. Joseph	05/18/2005
Raymond S. Uttaro	05/17/2005
Shaun Berry	05/17/2005
Bernadette Johnson	05/17/2005
Mark A. Hollis	05/17/2005

RECEIVING PARTY DATA

Name:	Massachusetts Institute of Technology
Street Address:	77 Massachusetts Avenue
City:	Cambridge
State/Country:	MASSACHUSETTS
Postal Code:	02139

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12217471

CORRESPONDENCE DATA

CH \$40.00 12217471

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ATTORNEY DOCKET NUMBER:

0050.2068-029

NAME OF SUBMITTER:

Amy T. Comeau

Total Attachments: 18

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JointASSIGNMENT

WHEREAS, we, **Eric D. Schwoebel, James D. Harper, Martha S. Petrovick, Frances E. Nargi, Todd H. Rider, Kristine E. Hogan, Richard H. Mathews, Joseph Lacirignola, Mark Hennessy, Trina R. Vian, Rose M. Joseph, Raymond S. Uttaro, Shaun Berry, Bernadette Johnson and Mark A. Hollis**, have invented a certain improvement in "Optoelectronic Detection System" described in an application for Patent,

- the specification of which is about to be filed in the United States Patent Office (*use for utility (37 CFR § 1.53(b)) and design filings only*);
- is about to be filed in the United States Patent Office as a Provisional Application;
- the specification of which is United States Application No. **11/001,583**, filed **December 1, 2004**;
- the specification of which is a Patent Cooperation Treaty Application, International Application No. [], filed [], which designates the United States of America [and assigned United States Application No. []];
- which was patented under United States Patent No. [].

WHEREAS, **Massachusetts Institute of Technology** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the **Commonwealth of Massachusetts**, and having a usual place of business at **77 Massachusetts Avenue, Cambridge, Massachusetts 02139** desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue on said invention; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein; I hereby

expressly authorize the filing of an International Patent Application under the Patent Cooperation Treaty which corresponds to and claims the priority of the above-identified application;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of any future applications including substitution, reissue, divisional or continuation applications, and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor's Signature: _____

Eric D. Schwoebel

State/Commonwealth _____

of _____

County of _____

On this _____ day of _____, 20____, before me, the undersigned notary public, personally appeared **Eric D. Schwoebel**,

personally known to me, or

proved to me through satisfactory evidence of identification, which was _____

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Notary Public

(print name)

My Commission expires ____/____/____

Inventor's Signature: _____

James D. Harper

State/Commonwealth _____

of _____

County of _____

On this _____ day of _____, 20____, before me, the undersigned notary public, personally appeared **James D. Harper**,

personally known to me, or

proved to me through satisfactory evidence of identification, which was _____

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Notary Public

(print name)

My Commission expires ____/____/____

Inventor's Signature: _____

Martha S. Petrovick

State/Commonwealth _____

of _____

County of _____

On this _____ day of _____, 20____, before me, the undersigned notary public, personally appeared **Martha S. Petrovick**,

personally known to me, or

proved to me through satisfactory evidence of identification, which was _____

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Notary Public

(print name)

My Commission expires ____/____/____

PATENT

Inventor's Signature: _____

Frances E. Nargi

State/Commonwealth

of _____

County of _____

On this _____ day of _____, 20____, before me, the undersigned notary public, personally appeared **Frances E. Nargi**,

personally known to me, or

proved to me through satisfactory evidence of identification, which was _____

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Notary Public

(print name)
My Commission expires ____/____/____

Inventor's Signature: _____

Todd H. Rider

Todd H. Rider

State/Commonwealth

of Massachusetts

County of Middlesex

On this 19th day of April, 2005, before me, the undersigned notary public, personally appeared **Todd H. Rider**,

personally known to me, or

proved to me through satisfactory evidence of identification, which was _____

Employee Badge

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Susan M. Abert Notary Public
Susan M. Abert (print name)
My Commission expires 12/31/10

PATENT

Inventor's Signature: _____
Kristine E. Hogan

State/Commonwealth _____
of _____
County of _____

On this _____ day of _____, 20____, before me, the undersigned notary public, personally appeared **Kristine E. Hogan**,

- personally known to me, or
- proved to me through satisfactory evidence of identification, which was _____

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL) _____ Notary Public

(print name)
My Commission expires ____/____/____

Inventor's Signature: _____
Richard H. Mathews

State/Commonwealth _____
of _____
County of _____

On this _____ day of _____, 20____, before me, the undersigned notary public, personally appeared **Richard H. Mathews**,

- personally known to me, or
- proved to me through satisfactory evidence of identification, which was _____

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL) _____ Notary Public

(print name)
My Commission expires ____/____/____

Inventor's Signature: _____
Joseph Lacirignola

State/Commonwealth _____
of _____

County of _____

On this _____ day of _____, 20____, before me, the undersigned notary public, personally appeared **Joseph Lacirignola**,

personally known to me, or

proved to me through satisfactory evidence of identification, which was _____

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Notary Public
(print name)

My Commission expires ____/____/____

Inventor's Signature: _____
Mark Hennessy

State/Commonwealth _____
of _____

County of _____

On this _____ day of _____, 20____, before me, the undersigned notary public, personally appeared **Mark Hennessy**,

personally known to me, or

proved to me through satisfactory evidence of identification, which was _____

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Notary Public
(print name)

My Commission expires ____/____/____

PATENT

Inventor's Signature: _____
Trina R. Vian

State/Commonwealth _____
of _____
County of _____

On this _____ day of _____, 20____, before me, the undersigned notary public, personally appeared Trina R. Vian,

personally known to me, or

proved to me through satisfactory evidence of identification, which was _____

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL) _____ Notary Public
_____ (print name)

My Commission expires ____/____/____

Inventor's Signature: _____
Rose M. Joseph

State/Commonwealth _____
of _____
County of _____

On this _____ day of _____, 20____, before me, the undersigned notary public, personally appeared Rose M. Joseph,

personally known to me, or

proved to me through satisfactory evidence of identification, which was _____

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL) _____ Notary Public
_____ (print name)

My Commission expires ____/____/____

PATENT

Inventor's Signature: _____
Raymond S. Uttaro

State/Commonwealth
of _____
County of _____

On this _____ day of _____, 20____, before me, the undersigned notary public, personally appeared **Raymond S. Uttaro**,

- personally known to me, or
- proved to me through satisfactory evidence of identification, which was _____

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL) _____ Notary Public

(print name)
My Commission expires ____/____/____

Inventor's Signature: _____
Shaun Berry

State/Commonwealth
of _____
County of _____

On this _____ day of _____, 20____, before me, the undersigned notary public, personally appeared **Shaun Berry**,

- personally known to me, or
- proved to me through satisfactory evidence of identification, which was _____

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL) _____ Notary Public

(print name)
My Commission expires ____/____/____

Inventor's Signature: _____
Bernadette Johnson

State/Commonwealth
of _____
County of _____

On this _____ day of _____, 20____, before me, the undersigned notary public, personally appeared **Bernadette Johnson**,

- personally known to me, or
- proved to me through satisfactory evidence of identification, which was _____

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL) _____ Notary Public

(print name)
My Commission expires ____/____/____

Inventor's Signature: _____
Mark A. Hollis

State/Commonwealth
of _____
County of _____

On this _____ day of _____, 20____, before me, the undersigned notary public, personally appeared **Mark A. Hollis**,

- personally known to me, or
- proved to me through satisfactory evidence of identification, which was _____

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL) _____ Notary Public

(print name)
My Commission expires ____/____/____

JointASSIGNMENT

WHEREAS, we, **Eric D. Schwoebel, James D. Harper, Martha S. Petrovick, Frances E. Nargi, Todd H. Rider, Kristine E. Hogan, Richard H. Mathews, Joseph Lacirignola, Mark Hennessy, Trina R. Vian, Rose M. Joseph, Raymond S. Uttaro, Shaun Berry, Bernadette Johnson and Mark A. Hollis**, have invented a certain improvement in "**Optoelectronic Detection System**" described in an application for Patent,

- the specification of which is about to be filed in the United States Patent Office (*use for utility (37 CFR § 1.53(b)) and design filings only*);
- is about to be filed in the United States Patent Office as a Provisional Application;
- the specification of which is United States Application No. **11/001,583**, filed **December 1, 2004**;
- the specification of which is a Patent Cooperation Treaty Application, International Application No. [], filed [], which designates the United States of America [and assigned United States Application No. []];
- which was patented under United States Patent No. [].

WHEREAS, **Massachusetts Institute of Technology** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the **Commonwealth of Massachusetts**, and having a usual place of business at **77 Massachusetts Avenue, Cambridge, Massachusetts 02139** desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue on said invention; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein; I hereby

expressly authorize the filing of an International Patent Application under the Patent Cooperation Treaty which corresponds to and claims the priority of the above-identified application;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of any future applications including substitution, reissue, divisional or continuation applications, and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor's Signature:

Eric D. Schwoebel

Eric D. Schwoebel

State/Commonwealth

of Massachusetts

County of Middlesex

On this 17th day of May, 2005, before me, the undersigned notary public, personally appeared **Eric D. Schwoebel**,

personally known to me, or

proved to me through satisfactory evidence of identification, which was

Employee

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Susan M. Abert Notary Public

Susan M. Abert (print name)

My Commission expires 12/31/10

Inventor's Signature: James D. Harper
James D. Harper

State/Commonwealth
of Massachusetts
County of Middlesex

On this 17th day of May, 2005, before me, the undersigned notary public, personally appeared **James D. Harper**,

- personally known to me, or
- proved to me through satisfactory evidence of identification, which was Employee Badge

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL) Susan M. Abert Notary Public
Susan M. Abert (print name)
My Commission expires 12/31/10

Inventor's Signature: Martha S. Petrovick
Martha S. Petrovick

State/Commonwealth
of Massachusetts
County of Middlesex

On this 17th day of May, 2005, before me, the undersigned notary public, personally appeared **Martha S. Petrovick**,

- personally known to me, or
- proved to me through satisfactory evidence of identification, which was Employee Badge

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL) Susan M. Abert Notary Public
Susan M. Abert (print name)
My Commission expires 12/31/10

PATENT

Inventor's Signature: _____

Frances E. Nargi
Frances E. Nargi

State/Commonwealth

of Massachusetts

County of W. d. d. d. d.

On this 17th day of May, 2005, before me, the undersigned notary public, personally appeared **Frances E. Nargi**,

personally known to me, or

proved to me through satisfactory evidence of identification, which was Employee Badge

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Susan M. Albert Notary Public

Susan M. Albert (print name)

My Commission expires 12/31/10

Inventor's Signature: _____

Todd H. Rider

State/Commonwealth

of _____

County of _____

On this _____ day of _____, 20____, before me, the undersigned notary public, personally appeared **Todd H. Rider**,

personally known to me, or

proved to me through satisfactory evidence of identification, which was _____

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Notary Public

(print name)

My Commission expires ____/____/____

PATENT

Inventor's Signature: Kristine E Hogan
Kristine E. Hogan

State/Commonwealth
of Massachusetts
County of Middlesex

On this 20th day of May, 2005, before me, the undersigned notary public, personally appeared **Kristine E. Hogan**,

personally known to me, or

proved to me through satisfactory evidence of identification, which was Employee Badge

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL) Susan M. Abert Notary Public
Susan M. Abert (print name)
My Commission expires 12/31/10

Inventor's Signature: R.H. Mathews
Richard H. Mathews

State/Commonwealth
of Middlesex Massachusetts
County of Middlesex

On this 17th day of May, 2005, before me, the undersigned notary public, personally appeared **Richard H. Mathews**,

personally known to me, or

proved to me through satisfactory evidence of identification, which was Employee Badge

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL) Susan M. Abert Notary Public
Susan M. Abert (print name)
My Commission expires 12/31/10

PATENT

Inventor's Signature: _____

Joseph Lacirignola
Joseph Lacirignola

State/Commonwealth

of Massachusetts

County of Middlesex

On this 12th day of May, 2005, before me, the undersigned notary public, personally appeared **Joseph Lacirignola**,

personally known to me, or

proved to me through satisfactory evidence of identification, which was

Employee Badge

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Susan M. Abert Notary Public

Susan M. Abert (print name)

My Commission expires 12/31/10

Inventor's Signature: _____

Mark Hennessy
Mark Hennessy

State/Commonwealth

of Massachusetts

County of Middlesex

On this 17th day of May, 2005, before me, the undersigned notary public, personally appeared **Mark Hennessy**,

personally known to me, or

proved to me through satisfactory evidence of identification, which was

Employee Badge

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Susan M. Abert Notary Public

Susan M. Abert (print name)

My Commission expires 12/31/10

PATENT

Inventor's Signature: Trina R. Vian
Trina R. Vian

State/Commonwealth
of Massachusetts
County of Middlesex

On this 17th day of May, 2005, before me, the undersigned notary public, personally appeared **Trina R. Vian**,

personally known to me, or

proved to me through satisfactory evidence of identification, which was Employee Badge

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL) Susan M. Abert Notary Public
Susan M. Abert (print name)
My Commission expires 12/31/10

Inventor's Signature: Rose M. Joseph
Rose M. Joseph

State/Commonwealth
of Massachusetts
County of Middlesex

On this 18th day of May, 2005, before me, the undersigned notary public, personally appeared **Rose M. Joseph**,

personally known to me, or

proved to me through satisfactory evidence of identification, which was Employee Badge

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL) Susan M. Abert Notary Public
Susan M. Abert (print name)
My Commission expires 12/31/10

PATENT

Inventor's Signature: Raymond S. Uttaro
Raymond S. Uttaro

State/Commonwealth
of Massachusetts
County of Middlesex

On this 17th day of May, 2005, before me, the undersigned notary public, personally appeared **Raymond S. Uttaro**,

- personally known to me, or
- proved to me through satisfactory evidence of identification, which was Employee Badge

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL) Susan M. Abert Notary Public
Susan M. Abert (print name)
My Commission expires 12/31/10

Inventor's Signature: Shaun Berry
Shaun Berry

State/Commonwealth
of Massachusetts
County of Middlesex

On this 17th day of May, 2005, before me, the undersigned notary public, personally appeared **Shaun Berry**,

- personally known to me, or
- proved to me through satisfactory evidence of identification, which was Employee Badge

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL) Susan M. Abert Notary Public
Susan M. Abert (print name)
My Commission expires 12/31/10

Inventor's Signature: Bernadette Johnson
Bernadette Johnson

State/Commonwealth
of New Hampshire Massachusetts
County of Hillsborough Middlesex

On this 17th day of May, 2005, before me, the undersigned notary public, personally appeared **Bernadette Johnson**,

personally known to me, or

proved to me through satisfactory evidence of identification, which was Employee Badge

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Susan M. Abert Notary Public
Susan M. Abert (print name)
My Commission expires 12/31/10

Inventor's Signature: Mark A. Hollis
Mark A. Hollis

State/Commonwealth
of Massachusetts
County of Middlesex

On this 17th day of May, 2005, before me, the undersigned notary public, personally appeared **Mark A. Hollis**,

personally known to me, or

proved to me through satisfactory evidence of identification, which was Employee Badge

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Susan M. Abert Notary Public
Susan M. Abert (print name)
My Commission expires 12/31/10

PATENT