Electronic Version v1.1 Stylesheet Version v1.1

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

PATENT REEL: 021321 FRAME: 0538

500608486

00

Fax Number: (978)341-0136

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

Phone: 978-341-0036

Email: amy.comeau@hbsr.com

Correspondent Name: David E. Brook, Esq.

Address Line 1: 530 Virginia Road, P.O. Box 9133

Address Line 2: Hamilton, Brook, Smith & Reynolds, P.C. Address Line 4: Concord, MASSACHUSETTS 01742-9133

ATTORNEY DOCKET NUMBER: 0050.2068-029

NAME OF SUBMITTER: Amy T. Comeau

Total Attachments: 18

source=00502068029 assignment#page1.tif source=00502068029 assignment#page2.tif source=00502068029 assignment#page3.tif source=00502068029 assignment#page4.tif source=00502068029 assignment#page5.tif source=00502068029 assignment#page6.tif source=00502068029 assignment#page7.tif source=00502068029 assignment#page8.tif source=00502068029 assignment#page9.tif source=00502068029 assignment#page10.tif source=00502068029 assignment#page11.tif source=00502068029 assignment#page12.tif source=00502068029 assignment#page13.tif source=00502068029 assignment#page14.tif source=00502068029 assignment#page15.tif source=00502068029 assignment#page16.tif source=00502068029 assignment#page17.tif source=00502068029 assignment#page18.tif

<u>ASSIGNMENT</u>

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
[X]	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.

date set forth below.	Y WHEREOF, we have	hereunto set o	ur hands and affixed our seals the
Inventor's Signature:			
State/Commonwealth		Eric D. Sch	woebel
of			
County of			
On thisc notary public, personally	day of	, 20	, before me, the undersigned
personally known	to me, or		
proved to me thro	ough satisfactory evidence	e of identificat	ion, which was
to be the person whose nacknowledged that he/sh	ame was signed on the fo	oregoing instru strument as his	ment in my presence, and s/her free act and deed.
(SEAL)	and the second s		Notary Public
			(print name)
	My Commission ex	pires/	

Inventor's Signature:		
State/Commonwealth	Ja	mes D. Harper
of		
County of		
On thisnotary public, personall	day of y appeared James D. Harper ,	_, 20, before me, the undersigned
personally known	n to me, or	
proved to me thro	ough satisfactory evidence of ic	dentification, which was
to be the person whose racknowledged that he/sh	name was signed on the foregone signed the foregoing instrum	ing instrument in my presence, and ent as his/her free act and deed.
(SEAL)		Notary Public
	·	(print name)
	My Commission expires	/
Inventor's Signature:		
– State/Commonwealth	Marti	na S. Petrovick
of		
County of		
On this da	ay of, appeared Martha S. Petrovic k	20, before me, the undersigned
personally known	to me, or	
proved to me throu	igh satisfactory evidence of ide	ntification, which was
o be the person whose na cknowledged that he/she	me was signed on the foregoing signed the foregoing instrumen	g instrument in my presence, and nt as his/her free act and deed.
SEAL)		Notary Public
		(print name)
	My Commission expires	//
		PATENT

Inventor's Signature:	
State/Commonwealth	Frances E. Nargi
of	
County of	
On this day on the contact of	of, 20, before me, the undersigned peared Frances E. Nargi,
personally known to r	ne, or
proved to me through	satisfactory evidence of identification, which was
to be the person whose name acknowledged that he/she sig	was signed on the foregoing instrument in my presence, and ned the foregoing instrument as his/her free act and deed.
(SEAL)	Notary Public
en e	(print name)
	My Commission expires/
Inventor's Signature:	Jan 91 Ride
State/Commonwealth	Todd H. Rider
of Massahusett	
of <u>Massahusell</u> County of <u>Middle</u>	ely-
	April .2005 before me, the undersigned
personally known to me	, or
proved to me through sa	tisfactory evidence of identification, which was
to be the person whose name w	as signed on the foregoing instrument in my presence, and ed the foregoing instrument as his/her free act and deed.
<u> </u>	Suscen M. Abert (print name)
	My Commission expires 12/31/10

Richard H. Mathews State/Commonwealth Of	Inventor's Signature:				The state of the s
County of			Kristine E. H	logan	
On this					
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 My Commonwealth of County of On thisday 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 My Commission expires 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		of	, 20 gan,	, before me, the undersign	ned
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	personally known to	me, or			
(SEAL) Notary Public (print name) My Commission expires Notary Public (print name) My Commission expires 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	h satisfactory evidence o	of identification	n, which was	
(SEAL) My Commission expires My Commission expires 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	o be the person whose nam cknowledged that he/she si	e was signed on the fore igned the foregoing instr	egoing instrum rument as his/h	ent in my presence, and ner free act and deed.	
My Commission expires/					
My Commission expires/			(pi	rint name)	
Richard H. Mathews State/Commonwealth Of		My Commission expir	***************************************		
State/Commonwealth of	ventor's Signature:				
County of On this day of, 20, before me, the undersigned notary public, personally appeared Richard H. Mathews, personally known to me, or	ate/Commonwealth	Ric	hard H. Math	iews	
On this day of, 20, before me, the undersigned notary public, personally appeared Richard H. Mathews , personally known to me, or					
personally known to me, or	ounty of				
personally known to me, or		f	, 20, b	efore me, the undersigned	1.
			ews,		
proved to well 1 1 1 2	personally known to m	e, or			
proved to me through satisfactory evidence of identification, which was	proved to me through s	satisfactory evidence of i	dentification,	which was	
be the person whose name was signed on the foregoing instrument in my presence, and cknowledged that he/she signed the foregoing instrument as his/her free act and deed.	pe the person whose name anowledged that he/she sign	was signed on the foregoned the foregoned the foregoing instrum	oing instrument nent as his/her	t in my presence, and free act and deed.	
SEAL) Notary Public					
(print name)			(prin	t name)	
My Commission expires//		My Commission expires			

Inventor's Signature:	
State/Commonwealth	Joseph Lacirignola
of County of	
on this day notary public, personally ap	of, 20, before me, the undersigned peared Joseph Lacirignola,
personally known to	
proved to me through	satisfactory evidence of identification, which was
to be the person whose name acknowledged that he/she sig	was signed on the foregoing instrument in my presence, and gned the foregoing instrument as his/her free act and deed.
(SEAL)	Notary Public
	(print name)
	My Commission expires//
Inventor's Signature:	
State/Commonwealth	Mark Hennessy
of	
County of	
On this day of notary public, personally appear	, 20, before me, the undersigned ared Mark Hennessy,
personally known to me	e, or
proved to me through sa	atisfactory evidence of identification, which was
to be the person whose name wacknowledged that he/she signed	vas signed on the foregoing instrument in my presence, and ed the foregoing instrument as his/her free act and deed.
(SEAL)	Notary Public
	(print name)
I.	My Commission expires/

Inventor's Signature:		
State/Commonwealth		Trina R. Vian
of	en e	
County of		
On thisnotary public, personal	day ofly appeared Trina R. Via	, 20, before me, the undersigned n,
personally know	n to me, or	
proved to me thr	ough satisfactory evidence	e of identification, which was
to be the person whose acknowledged that he/s	name was signed on the fo he signed the foregoing in	oregoing instrument in my presence, and strument as his/her free act and deed.
(SEAL)		Notary Public
		(print name)
	My Commission ex	
Inventor's Signature:		Rose M. Joseph
State/Commonwealth of		
County of		
On thisd	ay ofappeared Rose M. Josep h	, 20, before me, the undersigned
personally known	to me, or	
proved to me throu	igh satisfactory evidence c	of identification, which was
to be the person whose na acknowledged that he/she	me was signed on the fore signed the foregoing instr	egoing instrument in my presence, and rument as his/her free act and deed.
(SEAL)	4	Notary Public
		(print name)
	My Commission expir	res/

Inventor's Signature:	
State/Commonwealth	Raymond S. Uttaro
- r	
Country of	
On this	
personally know	wn to me, or
proved to me th	rough satisfactory evidence of identification, which was
to be the person whose acknowledged that he/	name was signed on the foregoing instrument in my presence, and she signed the foregoing instrument as his/her free act and deed.
(SEAL)	Notary Public
	(print name)
	My Commission expires/
Inventor's Signature:	My Commission expires/
Inventor's Signature: State/Commonwealth	My Commission expires//_ Shaun Berry
State/Commonwealth	
State/Commonwealth ofCounty of	Shaun Berry
State/Commonwealth ofCounty of	Shaun Berry lay of, 20, before me, the undersigned appeared Shaun Berry,
State/Commonwealth of County of On this	Shaun Berry lay of, 20, before me, the undersigned appeared Shaun Berry,
State/Commonwealth of County of On this	Shaun Berry day of, 20, before me, the undersigned appeared Shaun Berry, to me, or ough satisfactory evidence of identification, which was ame was signed on the foregoing instrument in my presence and
State/Commonwealth of County of On this	Shaun Berry lay of, 20, before me, the undersigned appeared Shaun Berry, to me, or hugh satisfactory evidence of identification, which was
State/Commonwealth of County of On this	Shaun Berry day of, 20, before me, the undersigned appeared Shaun Berry, to me, or augh satisfactory evidence of identification, which was ame was signed on the foregoing instrument in my presence, and e signed the foregoing instrument as his/her free act and deed.

Inventor's Signature:			
		Bernadette Johnson	
State/Commonwealth			
of		g de la marchina della marchina de la marchina della marchina dell	the programme
County of			
On this da notary public, personally a	y ofappeared Bernadette	, 20, before me	e, the undersigned
personally known t	o me, or		
proved to me throu	gh satisfactory eviden	ce of identification, which wa	as
o be the person whose nar cknowledged that he/she	me was signed on the signed the foregoing i	foregoing instrument in my p instrument as his/her free act	resence, and and deed.
SEAL)		Notary Public	
		(print name)	
	My Commission e	expires / /	
nventor's Signature:			•
		Mark A. Hollis	
ate/Commonwealth			
		_	
ounty of			
n this day tary public, personally ap		, 20, before me, t	he undersign ed
personally known to	me, or		
proved to me through	satisfactory evidence	of identification, which was	
be the person whose name knowledged that he/she si	e was signed on the fo gned the foregoing ins	regoing instrument in my prestrument as his/her free act an	sence, and deed.
EAL)		Notary Public	
		(print name)	
	My Commission exp		

@PFDesktop\::ODMA/MHODMA/HBSR05;iManage;535060;1

PATENT

ASSIGNMENT

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
[X]	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 Massachusetts
of Massachus etts County of Middleser
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
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) Junn M. Phase Notary Public
Sugar M. Abert (print name)
My Commission expires /2/3/1/0

Inventor's Signature: Carnes Down
James D. Harper
State/Commonwealth
of Massahusells
County of Middlesen
On this 12 h day of, 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
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
Susan M. Abend (print name)
My Commission expires 12/3/10
Inventor's Signature: Martha J. PetroviceR
Martha S. Petrovick
State/Commonwealth
of Massachiesetts
County of Middleson
On this
personally known to me, or
proved to me through satisfactory evidence of identification, which was Employee Budge
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. Meek (print name)
Susan M. Wheel (print name)
My Commission expires 12 3 10

			Docket N	No. 0050.2068-01
Inventor's Signature:	Tr	ancel A	agi	
State/Commonwealth	<i></i>	Frances E.	Nargi	
4	· · · · · · · · ·		e de la companya de	
of <u>Messachu</u> County of <u>M. dd</u>	10 0	macovino 6040		
		riverse in the first of the fir		
On thisd notary public, personally	ay of	, 20 <u>0 </u>	5, before me, th	ne undersigned
personally known	to me, or			to the said of the
	ugh satisfactory eviden		ion, which was	
to be the person whose nacknowledged that he/she	ame was signed on the			
(SEAL)	<u> Lucan</u> 1	m. Alad	Notary Public	•
	Susan h	n Abert	(print name)	· Comment
	My Commission			
Inventor's Signature:				
Ctota/Commonwealth		Todd H. R	lider	
State/Commonwealth				
of County of				
On this da notary public, personally	ly of	, 20	_, before me, th	e undersigned
notary public, personally	appeared roud II. Kid	iei,		
personally known	to me, or			· C
proved to me throu	ngh satisfactory eviden	ce of identificat	ion, which was	
to be the person whose na acknowledged that he/she				
(SEAL)			Notary Public	
	Explaned converses and conversed about the distribution of the converse conversed to the second department of the conversed to the conversed t		(print name)	
	My Commission	ngggyggis-pa-quipamacquinacum hiithicanaanpylihaidiigis-daachanaanbel-250	/	
		F =	D	ATENT

Inventor's Signature:	Kuphne Elto	Sar	
0, 1, 10	/ Kı	ristine E. Hogan	
State/Commonwealth			•
of Massachus	effes	÷	
County of M.dd/e	se of	e e Maria	talianianianianianianianianianianianianiani
On this 20th day of notary public, personally app	of <u>May</u> peared Kristine E. Hoga	, 20 <u>05</u> , before me, n,	the undersigned
personally known to r	ne, or		
1	satisfactory evidence of Badge	identification, which was	
to be the person whose name acknowledged that he/she sig			
(SEAL)	Jum Mi	Notary Public (print name)	
	Susan M. Ab	ef (print name)	
	My Commission expire		
Inventor's Signature:	R.H. Znatle		
	Rich	ard H. Mathews	er und de la grande
State/Commonwealth			
of Maddleson 1	hamitusetts		
County of Middle	<u> </u>		
On this day o notary public, personally app	f <u>May</u> eared Richard H. Matho	, 2005, before me, t	he undersigned
personally known to n	ne, or		
proved to me through	satisfactory evidence of i	dentification, which was	
to be the person whose name acknowledged that he/she sig	was signed on the forego		
(SEAL)	Suran M.	Motary Public	
	Susan M. M	(print name)	
	My Commission expire	s 12/3///0	PATENT

Inventor's Signature:	beech buregrala
State/Commonwealth	Joseph Lacirignola
of Massachuse	effs
County of Middle	
On this 12 th day of notary public, personally app	of
personally known to r	ne, 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 gned the foregoing instrument as his/her free act and deed.
(SEAL)	Sussen M. Abert (print name)
	Susses M. Abert (print name)
	My Commission expires 12/3/10
Inventor's Signature:	Mach Hennese
	Mark Hennessy
State/Commonwealth	
of Massahuset	<u>45</u>
County of Midd 1	2005
On this day o notary public, personally app	f
On this day o notary public, personally app personally known to m	
personally known to n	ne, or satisfactory evidence of identification, which was
personally known to no proved to me through to be the person whose name	ne, or
personally known to me through to be the person whose name acknowledged that he/she signature.	satisfactory evidence of identification, which was **Bracket** was signed on the foregoing instrument in my presence, and ned the foregoing instrument as his/her free act and deed.
personally known to me through to be the person whose name acknowledged that he/she signature.	satisfactory evidence of identification, which was **Bradge** was signed on the foregoing instrument in my presence, and

Inventor's Signature: Like Note 1	CL.
	Trina R. Vian
State/Commonwealth	
of <u>Manahusette</u> County of <u>Middleser</u>	en e
County of Middleser	
On this	an, 2005, before me, the undersigned
personally known to me, or	
proved to me through satisfactory evider	
to be the person whose name was signed on the acknowledged that he/she signed the foregoing	
(SEAL) Susan 1	M. Abel Notary Public
Susan M	1. Abel (print name)
My Commission	expires <u>12 31 10</u>
Inventor's Signature:	Roy M. Oa. R
	Rose M. Joseph
State/Commonwealth	
of Massachusetts	
County of M. Idlesen	·
On this 18th day of May notary public, personally appeared Rose M. Jos	, 2005, before me, the undersigned eph,
personally known to me, or	
proved to me through satisfactory eviden	
proved to me through satisfactory eviden	foregoing instrument in my presence, and
proved to me through satisfactory evident to be the person whose name was signed on the acknowledged that he/she signed the foregoing in	foregoing instrument in my presence, and nstrument as his/her free act and deed.
proved to me through satisfactory evident to be the person whose name was signed on the acknowledged that he/she signed the foregoing in	foregoing instrument in my presence, and

Inventor's Signature: Rach L Utto
Raymond S. Uttaro
State/Commonwealth
of Massachusetts
County of Middlesea
On this, 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
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
Susan M. Bleet (print name)
My Commission expires 12/3/10
Inventor's Signature: R. R.
Shaun Berry
State/Commonwealth
State/Commonwealth
Shaun Berry
State/Commonwealth of <u>Massachusetts</u>
State/Commonwealth of Massachusetts County of M. dd/esos On this 17th day of May, 2005, before me, the undersigned
State/Commonwealth of MassachuseHs County of MassachuseHs On this 12 M day of Massachuse notary public, personally appeared Shaun Berry, personally known to me, or proved to me through satisfactory evidence of identification, which was
State/Commonwealth of Massachusetts County of M. dd/eses On this 12th day of May, 2005, before me, the undersigned notary public, personally appeared Shaun Berry, personally known to me, or
State/Commonwealth of Massachusells County of Massachusells On this 12 May of May of May of Shaun Berry, On this personally appeared Shaun Berry, personally known to me, or proved to me through satisfactory evidence of identification, which was make 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.
State/Commonwealth of Massachusells County of Massachusells On this 12 May 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 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.

Inventor's Signature:	Bernalette Admoor
	Bernadette Johnson
1	Messachusetts Modeleser
On this	y of
personally known to	o me, or
	gh satisfactory evidence of identification, which was
	ne was signed on the foregoing instrument in my presence, and signed the foregoing instrument as his/her free act and deed.
(SEAL)	Sum M. Abert (print name)
	My Commission expires 12/3//0
Inventor's Signature:	Male d. Holl
State/Commonwealth of Massachus County of M, dd	
On this day notary public, personally a	of 177ca, 2005, before me, the undersigned ppeared Mark A. Hollis,
personally known to	me, or
proved to me through	th satisfactory evidence of identification, which was
to be the person whose nar	ne was signed on the foregoing instrument in my presence, and signed the foregoing instrument as his/her free act and deed.
(SEAL)	Susan M. Mert (print name)
	My Commission expires 12 (31 /20)

RECORDED: 07/31/2008