

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>Michael Kelly</td> <td>08/02/2011</td> </tr> <tr> <td>Brian Tyrrell</td> <td>07/27/2011</td> </tr> <tr> <td>Curtis Colonero</td> <td>08/02/2011</td> </tr> <tr> <td>Robert Berger</td> <td>07/27/2011</td> </tr> <tr> <td>Kenneth Schultz</td> <td>08/02/2011</td> </tr> <tr> <td>James Wey</td> <td>07/27/2011</td> </tr> <tr> <td>Daniel Mooney</td> <td>08/02/2011</td> </tr> <tr> <td>Lawrence Candell</td> <td>08/05/2011</td> </tr> </tbody> </table>		Name	Execution Date	Michael Kelly	08/02/2011	Brian Tyrrell	07/27/2011	Curtis Colonero	08/02/2011	Robert Berger	07/27/2011	Kenneth Schultz	08/02/2011	James Wey	07/27/2011	Daniel Mooney	08/02/2011	Lawrence Candell	08/05/2011
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<table border="1"> <tr> <td>Name:</td> <td>The Massachusetts Institute of Technology</td> </tr> <tr> <td>Street Address:</td> <td>77 Massachusetts Avenue</td> </tr> <tr> <td>City:</td> <td>Cambridge</td> </tr> <tr> <td>State/Country:</td> <td>MASSACHUSETTS</td> </tr> <tr> <td>Postal Code:</td> <td>02139</td> </tr> </table>		Name:	The Massachusetts Institute of Technology	Street Address:	77 Massachusetts Avenue	City:	Cambridge	State/Country:	MASSACHUSETTS	Postal Code:	02139								
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PROPERTY NUMBERS Total: 1																			
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Application Number:	13299995																		
CORRESPONDENCE DATA																			
Fax Number:	(617)342-4001																		
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Email:	sdinicola@foley.com																		
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>																			
Correspondent Name:	Foley & Lardner LLP																		
Address Line 1:	111 Huntington Avenue																		
Address Line 4:	Boston, MASSACHUSETTS 02199																		

OP \$40.00 13299995

ATTORNEY DOCKET NUMBER:	099477-0146MIT13049LUS02
NAME OF SUBMITTER:	Susan C. DiNicola
<p>Total Attachments: 10 source=099477-0146ASSIGN#page1.tif source=099477-0146ASSIGN#page2.tif source=099477-0146ASSIGN#page3.tif source=099477-0146ASSIGN#page4.tif source=099477-0146ASSIGN#page5.tif source=099477-0146ASSIGN#page6.tif source=099477-0146ASSIGN#page7.tif source=099477-0146ASSIGN#page8.tif source=099477-0146ASSIGN#page9.tif source=099477-0146ASSIGN#page10.tif</p>	

ASSIGNMENT - WORLDWIDE

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor (hereinafter referred to singly and collectively as "ASSIGNOR") has sold, assigned, and transferred, and by these presents hereby sells, assigns, and transfers, unto

The Massachusetts Institute of Technology
77 Massachusetts Avenue
Cambridge, Massachusetts 02139

(hereinafter referred to as "ASSIGNEE") its successors and assigns, his or her full and exclusive right, title and interest for the United States, its territories and possessions, and all foreign countries in and to this invention relating to

DIGITAL READOUT METHOD AND APPARATUS

as set forth in this United States Patent Application

check one executed concurrently herewith,
 executed on _____,
 Serial No. 11/978351 Filed 10/29/2007

as well as in and to (a) all improvements and modifications of the above-identified invention or inventions, (b) the above-identified application and all other applications for Letters Patent of the United States and countries foreign thereto for above-identified invention or inventions and all improvements and modifications thereof, (c) all Letters Patent which may issue from said applications in the United States and countries foreign thereto, (d) all divisions, continuations, reissues, and extensions of said applications and Letters Patent, and (e) the right to claim for any of said applications the full benefits and priority rights under the Patent Cooperation Treaty, the Paris Convention and any other international agreement; such right, title, and interest to be held and enjoyed by ASSIGNEE, its successors and assigns, to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by ASSIGNOR had this Assignment not been made.

ASSIGNOR HEREBY AUTHORIZES ASSIGNEE to file patent applications in any or all countries on the above-identified invention or inventions in the name of the undersigned or in the name of ASSIGNEE or otherwise as ASSIGNEE may deem advisable under the International Convention or otherwise.

ASSIGNOR HEREBY AUTHORIZES AND REQUESTS the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE as assignee of the entire interest, for the sole use and benefit of ASSIGNEE, its successors and assigns.

ASSIGNOR HEREBY AGREES (a) to communicate to ASSIGNEE, its successors and assigns, or their representative or agents, all facts and information known or available to ASSIGNOR respecting said invention or inventions, improvements, and modifications including evidence for interference, reexamination, reissue, opposition, revocation, extension, or infringement purposes or other legal, judicial, or administrative proceedings, whenever requested by ASSIGNEE; (b) to testify in person or by affidavit as required by ASSIGNEE, its successors and assigns, in any such proceeding in the United States or a country foreign thereto; (c) to execute and deliver, upon request by ASSIGNEE, all lawful papers including, but not limited to, original, divisional, continuation, and reissue applications, renewals, assignments, powers of attorney, oaths, affidavits, and declarations, depositions; and (d) to provide all reasonable assistance to ASSIGNEE, its successors and assigns, in obtaining and enforcing proper title in and protection for said invention or inventions, improvements, and modifications under the intellectual property laws of the United States and countries foreign thereto.

ASSIGNOR HEREBY REPRESENTS AND WARRANTS that ASSIGNOR has the full and unencumbered right to sell, assign, and transfer the interests sold, assigned, and transferred herein, and that ASSIGNOR has not executed and will not execute any document or instrument in conflict herewith.

ASSIGNOR HEREBY GRANTS to the law firm of **Foley & Lardner LLP** the power and authority to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

ASSIGNOR UNDERSTANDS AND AGREES that the attorneys and agents of the law firm of **Foley & Lardner LLP** do not personally represent ASSIGNOR OR ASSIGNOR's legal interests, but instead represent the interests of ASSIGNEE; since said attorneys and agents cannot provide legal advice to ASSIGNOR with respect to this Assignment, ASSIGNOR acknowledges its right to seek its own independent legal counsel.

Executed this 2 day of August, 2018

[Handwritten signature]
MICHAEL KELLY

State of MA

County of Middlesex

On this 2 day of August, 2018, before me, *[Handwritten signature]* (a notary public in and for said county), personally appeared MICHAEL KELLY, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature *[Handwritten signature]*

My Commission Expires: March 2, 2018

(Seal)

Executed this _____ day of _____, 20____.

BRIAN TYRRELL

State of _____

County of _____

On this _____ day of _____, 20____, before me, _____ (a notary public in and for said county), personally appeared BRIAN TYRRELL, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature _____

My Commission Expires: _____

(Seal)

Executed this _____ day of _____, 20____.

MICHAEL KELLY

State of _____)

County of _____)

On this _____ day of _____, 20____, before me, _____ (a notary public in and for said county), personally appeared MICHAEL KELLY, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature _____

My Commission Expires: _____

(Seal)

Executed this 27th day of July, 2011.

[Handwritten Signature]

BRIAN TYRRELL

State of MA)

County of Middlesex)

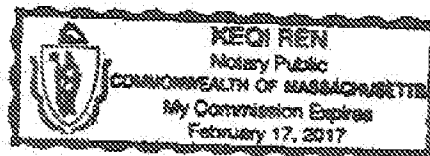
On this 07th day of July, 2011, before me, Keqi Ren (a notary public in and for said county), personally appeared BRIAN TYRRELL, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature Keqi Ren

My Commission Expires: Feb. 17th 2017

(Seal)



Executed this 2 day of August, 2011.

C. Col
CURTIS COLONERO

State of MA)

County of Middlesex)

On this 2 day of August, 2011, before me, Alicia A. Sabich (a notary public in and for said county), personally appeared CURTIS COLONERO, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature

Alicia A. Sabich

My Commission Expires: March 2, 2018

(Seal)

Executed this _____ day of _____, 20____.

ROBERT BERGER

State of _____)

County of _____)

On this _____ day of _____, 20____, before me, _____ (a notary public in and for said county), personally appeared ROBERT BERGER, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature

My Commission Expires: _____

(Seal)

Executed this _____ day of _____, 20____.

CURTIS COLONERO

State of _____)

County of _____)

On this _____ day of _____, 20____, before me, _____ (a notary public in and for said county), personally appeared CURTIS COLONERO, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature _____

My Commission Expires: _____

(Seal)

Executed this 27th day of July, 2011.

Robert Berger
ROBERT BERGER

State of MA)

County of Middlesex)

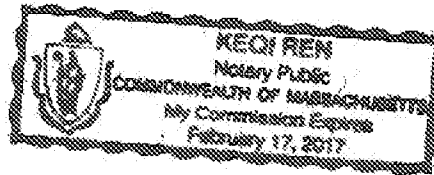
On this 27th day of July, 2011, before me, Keqi Ren (a notary public in and for said county), personally appeared ROBERT BERGER, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature Keqi Ren

My Commission Expires: Feb 17, 2017

(Seal)



Executed this 2 day of August, 2011.

Kenneth Schultz
KENNETH SCHULTZ

State of MA)
County of Middlesex)

On this 3 day of August, 2011, before me, Alvin LaRue (a notary public in and for said county), personally appeared KENNETH SCHULTZ, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature Alvin LaRue

My Commission Expires: 3-2-2018

(Seal)

Executed this _____ day of _____, 20____.

JAMES WEY

State of _____)
County of _____)

On this _____ day of _____, 20____, before me, _____ (a notary public in and for said county), personally appeared JAMES WEY, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature _____

My Commission Expires: _____

(Seal)

Executed this _____ day of _____, 20____.

KENNETH SCHULTZ

State of _____)

County of _____)

On this _____ day of _____, 20____, before me, _____ (a notary public in and for said county), personally appeared KENNETH SCHULTZ, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature _____

My Commission Expires: _____

(Seal)

Executed this 27 day of JULY, 2011.

James Wey
JAMES WEY

State of MA)

County of Middlesex)

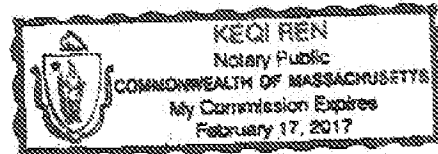
On this 27th day of July, 2011, before me, Keqi Ren (a notary public in and for said county), personally appeared JAMES WEY, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature Keqi Ren

My Commission Expires: Feb 17th, 2017

(Seal)



Executed this 2 day of Aug, 2011

Daniel Mooney
DANIEL MOONEY

State of Mass)

County of Middlesex

On this 2 day of August, 2011, before me, Alan DeSantis (a notary public in and for said county), personally appeared DANIEL MOONEY, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature Alan DeSantis

My Commission Expires: March 2, 2018

(Seal)

Executed this _____ day of _____, 20____.

LAWRENCE CANDELL

State of _____)

County of _____)

On this _____ day of _____, 20____, before me, _____ (a notary public in and for said county), personally appeared LAWRENCE CANDELL, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature _____

My Commission Expires: _____

(Seal)

