

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT										
NATURE OF CONVEYANCE:	Corrective Assignment to correct the Application Serial Number previously recorded on Reel 027300 Frame 0673. Assignor(s) hereby confirms the Application Serial Number listed as 13224768 is incorrect..										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Jay M. Gambetta</td> <td>10/17/2011</td> </tr> <tr> <td>Mark B. Ketchen</td> <td>10/20/2011</td> </tr> <tr> <td>Chad T. Rigetti</td> <td>11/21/2011</td> </tr> <tr> <td>Matthias Steffen</td> <td>10/12/2011</td> </tr> </tbody> </table>		Name	Execution Date	Jay M. Gambetta	10/17/2011	Mark B. Ketchen	10/20/2011	Chad T. Rigetti	11/21/2011	Matthias Steffen	10/12/2011
Name	Execution Date										
Jay M. Gambetta	10/17/2011										
Mark B. Ketchen	10/20/2011										
Chad T. Rigetti	11/21/2011										
Matthias Steffen	10/12/2011										
RECEIVING PARTY DATA											
Name:	International Business Machines Corporation										
Street Address:	New Orchard Road										
City:	Armonk										
State/Country:	NEW YORK										
Postal Code:	10504										
PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13224765</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13224765						
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Application Number:	13224765										
CORRESPONDENCE DATA											
Fax Number:	8602860115										
Phone:	4046079991										
Email:	usptopatentmail@cantorcolburn.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:	Cantor Colburn LLP										
Address Line 1:	20 Church Street										
Address Line 2:	22nd Floor										
Address Line 4:	Hartford, CONNECTICUT 06103										
ATTORNEY DOCKET NUMBER:	YOR920110314US2										

OP \$40.00 13224765

NAME OF SUBMITTER:

Greg O'Bradovich

Total Attachments: 11

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Jay M. Gambetta	10/17/2011
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Name:	International Business Machines Corporation
Street Address:	New Orchard Road
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State/Country:	NEW YORK
Postal Code:	10504
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	13224768
CORRESPONDENCE DATA	
Fax Number:	(860)286-0115
Phone:	4046079991
Email:	usptopatentmail@cantorcolburn.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:	Cantor Colburn LLP
Address Line 1:	20 Church Street
Address Line 2:	22nd Floor
Address Line 4:	Hartford, CONNECTICUT 06103
ATTORNEY DOCKET NUMBER:	YOR920110314US2
NAME OF SUBMITTER:	Greg O'Bradovich

CH \$40.00 13224768

ASSIGNMENT

Whereas, the undersigned Inventor(s) has/have made certain inventions, improvements, and discoveries (herein referred to as the "Invention") in:

Title of the Invention: **ARRAY OF QUANTUM SYSTEMS IN A CAVITY FOR QUANTUM COMPUTING**

and further identified by the IBM Docket Number provided above in the header of this Assignment, for which an application for a United States Patent was executed concurrently herewith or was filed having:

Serial Number: 13/224765 (insert series code and serial number here if/when available)


Whereas, International Business Machines Corporation, a corporation of New York having a place of business at Armonk, New York (herein referred to as "IBM"), desires to acquire, and each undersigned Inventor desires to grant to IBM, the entire worldwide right, title, and interest in and to the Invention and in and to any and all patent applications and patents directed thereto;

Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, each undersigned Inventor ("ASSIGNOR") hereby sells, assigns, and otherwise transfers to IBM (the "ASSIGNEE"), its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the Invention, the above-identified United States patent application, and any and all other patent applications and patents for the Invention which may be applied for or granted therefor in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, each undersigned Inventor hereby authorizes and requests the Director of the United States Patent and Trademark Office to issue any United States Patent, and foreign patent authorities to issue any foreign patent, granted for the Invention, to IBM, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by IBM, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made; and each undersigned Inventor agrees to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the Invention and all related patents and applications, in IBM, its successors, legal representatives, and assigns, whenever requested by IBM, its successors, legal representatives, or assigns.

Each undersigned Inventor acknowledges their prior and ongoing obligations to sell, assign, and transfer the rights under this Assignment to IBM and is unaware of any reason why they may not have the full and unencumbered right to sell, assign, and transfer the rights hereby sold, assigned, and transferred, and has not executed, and will not execute, any document or instrument in conflict herewith. Each undersigned Inventor also hereby grants IBM, its successors, legal representatives, and assigns, the right to insert in this Assignment any further identification (including, but not limited to, patent application Serial Number) which may be necessary or desirable for recordation of this Assignment. This Assignment is governed by the substantive laws of the State of New York, and any disputes will be resolved in a New York state court or federal court sited in New York.

[Inventor Signature Page(s) Follows]

Executed by Inventor 1

Signature:  Date: 10/17/2011
Jay M. Gambetta

Executed by Inventor 2

Signature: _____ Date: _____
Mark B. Ketchen

Executed by Inventor 3

Signature: _____ Date: _____
Chad T. Rigetti

Executed by Inventor 4

Signature:  Date: 10/12/2011
Matthias Steffen

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[Inventor Signature Page(s) Follows]

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Jay M. Gambetta

Executed by Inventor 2

Signature: Mark B. Ketchen Date: Oct 20, 2011
Mark B. Ketchen

Executed by Inventor 3

Signature: _____ Date: _____
Chad T. Rigetti

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Signature: _____ Date: _____
Matthias Steffen

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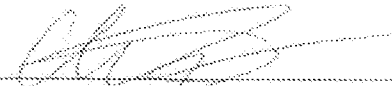
Executed by Inventor 1

Signature: Jay M. Gambetta Date: _____

Executed by Inventor 2

Signature: Mark B. Keenen Date: _____

Executed by Inventor 3

Signature:  Date: 11/22/2011
Chad T. Rigetti

Executed by Inventor 4

Signature: Matthias Steffen Date: _____