

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>Charles Jay Alpert</td> <td>05/31/2012</td> </tr> <tr> <td>Robert M Averill</td> <td>05/31/2012</td> </tr> <tr> <td>Zhuo Li</td> <td>05/31/2012</td> </tr> <tr> <td>Jose L.P. Neves</td> <td>05/31/2012</td> </tr> <tr> <td>Stephen T. Quay</td> <td>05/31/2012</td> </tr> </tbody> </table>		Name	Execution Date	Charles Jay Alpert	05/31/2012	Robert M Averill	05/31/2012	Zhuo Li	05/31/2012	Jose L.P. Neves	05/31/2012	Stephen T. Quay	05/31/2012
Name	Execution Date												
Charles Jay Alpert	05/31/2012												
Robert M Averill	05/31/2012												
Zhuo Li	05/31/2012												
Jose L.P. Neves	05/31/2012												
Stephen T. Quay	05/31/2012												
RECEIVING PARTY DATA													
<table border="1"> <tr> <td>Name:</td> <td>International Business Machines Corporation</td> </tr> <tr> <td>Street Address:</td> <td>New Orchard Road</td> </tr> <tr> <td>City:</td> <td>Armonk</td> </tr> <tr> <td>State/Country:</td> <td>NEW YORK</td> </tr> <tr> <td>Postal Code:</td> <td>10504</td> </tr> </table>		Name:	International Business Machines Corporation	Street Address:	New Orchard Road	City:	Armonk	State/Country:	NEW YORK	Postal Code:	10504		
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>13486177</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13486177								
Property Type	Number												
Application Number:	13486177												
CORRESPONDENCE DATA													
Fax Number: (281)754-4914 Phone: 281-758-0025 Email: btalash@delizogilliam.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: Andrew DeLizio Address Line 1: 15201 Mason Road Address Line 2: Suite 1000-312 Address Line 4: Cypress, TEXAS 77433													
ATTORNEY DOCKET NUMBER:	AUS920120109US1												
NAME OF SUBMITTER:	Becky Talash												

CH \$40.00 13486177

Total Attachments: 6

source=AUS920120109US1_SignedAssignment#page1.tif

source=AUS920120109US1_SignedAssignment#page2.tif

source=AUS920120109US1_SignedAssignment#page3.tif

source=AUS920120109US1_SignedAssignment#page4.tif

source=AUS920120109US1_SignedAssignment#page5.tif

source=AUS920120109US1_SignedAssignment#page6.tif

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: **EARLY DESIGN CYCLE OPTIMIZATION**

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:

Application Serial Number: 13/486,177 (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 therefore 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 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 Pages Follow}

Executed by Inventor 1 of 5

Signature Charles Jay Alpert Date 5/31/12
Charles Jay Alpert

Assignment

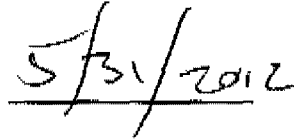
IBM DOCKET NUMBER: AUS920120109US1

Executed by Inventor 2 of 5

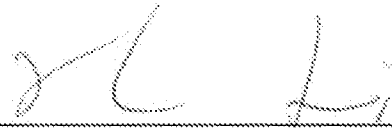
Signature


Robert M. Averill

Date



Executed by Inventor 3 of 5

Signature 
Zhuo Li

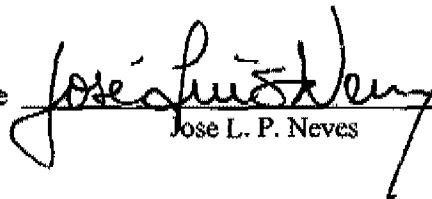
Date 05/31/2012

Assignment

IBM DOCKET NUMBER: AUS920120109US1

Executed by Inventor 4 of 5

Signature


Jose L. P. Neves

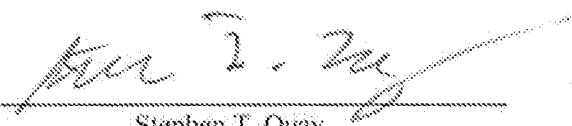
Date

5/31/2012

Assignment

IBM DOCKET NUMBER: AUS920120109US1

Executed by Inventor 5 of 5

Signature  Date 5/31/12
Stephen T. Quay

Page 6 of 6