

# PATENT ASSIGNMENT

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| SUBMISSION TYPE:   | NEW ASSIGNMENT                              |               |                |                     |            |  |            |  |
|--|---|---------------|----------------|---------------------|------------|--|------------|--|
| NATURE OF CONVEYANCE:  | ASSIGNMENT                                  |               |                |                     |            |  |            |  |
| CONVEYING PARTY DATA   |   |               |                |                     |            |  |            |  |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>David W. Boerstler</td> <td>05/05/2008</td> </tr> <tr> <td>Jieming Qi</td> <td>05/05/2008</td> </tr> </tbody> </table>                         |   | Name          | Execution Date | David W. Boerstler  | 05/05/2008 | Jieming Qi   | 05/05/2008 |  |
| Name   | Execution Date                              |               |                |                     |            |  |            |  |
| David W. Boerstler   | 05/05/2008                                  |               |                |                     |            |  |            |  |
| Jieming Qi   | 05/05/2008                                  |               |                |                     |            |  |            |  |
| RECEIVING PARTY DATA   |   |               |                |                     |            |  |            |  |
| Name:  | International Business Machines Corporation |               |                |                     |            |  |            |  |
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| City:  | Armonk                                      |               |                |                     |            |  |            |  |
| State/Country:   | NEW YORK                                    |               |                |                     |            |  |            |  |
| Postal Code:   | 10504                                       |               |                |                     |            |  |            |  |
| PROPERTY NUMBERS Total: 1  |   |               |                |                     |            |  |            |  |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Property Type</th> <th style="width: 70%;">Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12120331</td> </tr> </tbody> </table>  |   | Property Type | Number         | Application Number: | 12120331   | <div style="writing-mode: vertical-rl; transform: rotate(180deg);">           CH \$40.00 12120331         </div> |            |  |
| Property Type  | Number                                      |               |                |                     |            |  |            |  |
| Application Number:  | 12120331                                    |               |                |                     |            |  |            |  |
| CORRESPONDENCE DATA  |   |               |                |                     |            |  |            |  |
| Fax Number: (512)823-1036<br><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i><br>Phone: 5128231003<br>Email: abdeniso@us.ibm.com<br>Correspondent Name: D'Ann N. Rifai<br>Address Line 1: 11400 Burnet Road<br>Address Line 2: IBM-Intellectual Property Law<br>Address Line 4: Austin, TEXAS 78758-3493 |   |               |                |                     |            |  |            |  |
| ATTORNEY DOCKET NUMBER: AUS920080151US1-IBM<br>NAME OF SUBMITTER: D'Ann N. Rifai   |   |               |                |                     |            |  |            |  |
| Total Attachments: 1<br>source=AUS920080151US1_Assignment#page1.tif  |   |               |                |                     |            |  |            |  |

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PATENT  
 REEL: 020949 FRAME: 0241

## A S S I G N M E N T

Whereas, we,

(1) David W. Boerstler  
County of Williamson

of Round Rock  
and State of Texas

(2) Jieming Qi  
County of Travis

of Austin  
and State of Texas

have invented certain improvements in

**PHASE LOCKED LOOP WITH TEMPERATURE AND PROCESS COMPENSATION**

and executed, respectively, a United States patent application therefore on

(Dates Inventors Signed Declaration) (1) May 5, (2008); (2) 5/5, (2008).

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefore;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, we, the above named, hereby sell, assign, and transfer to IBM, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and in all foreign countries, and all rights of priority resulting from the filing of said United States application, and we request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth in said application to IBM, its successors and assigns; and we hereby agree that IBM may apply for foreign Letters Patent on said invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

(1) Signed at Austin on May 5, 2008.  
(City) (Date)

David W. Boerstler  
David W. Boerstler

(2) Signed at Austin on 5/5, 2008.  
(City) (Date)

Jieming Qi  
Jieming Qi