

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT										
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT										
<b>CONVEYING PARTY DATA</b>											
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Charles J. Alpert</td> <td>11/15/2007</td> </tr> <tr> <td>Zhuo Li</td> <td>11/15/2007</td> </tr> <tr> <td>Michael D. Moffitt</td> <td>11/15/2007</td> </tr> <tr> <td>David A. Papa</td> <td>11/15/2007</td> </tr> </tbody> </table>		Name	Execution Date	Charles J. Alpert	11/15/2007	Zhuo Li	11/15/2007	Michael D. Moffitt	11/15/2007	David A. Papa	11/15/2007
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Charles J. Alpert	11/15/2007										
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Michael D. Moffitt	11/15/2007										
David A. Papa	11/15/2007										
<b>RECEIVING PARTY DATA</b>											
<b>Name:</b>	International Business Machines Corporation										
<b>Street Address:</b>	New Orchard Road										
<b>City:</b>	Armonk										
<b>State/Country:</b>	NEW YORK										
<b>Postal Code:</b>	10504										
<b>PROPERTY NUMBERS Total: 1</b>											
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>11941105</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	11941105						
Property Type	Number										
Application Number:	11941105										
<b>CORRESPONDENCE DATA</b>											
<b>Fax Number:</b>	(512)823-1036										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
<b>Phone:</b>	5128230092										
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<b>Correspondent Name:</b>	Casimer K. Salys										
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<b>Address Line 2:</b>	IBM-Intellectual Property Law										
<b>Address Line 4:</b>	Austin, TEXAS 78758										
<b>ATTORNEY DOCKET NUMBER:</b>	AUS920070960US1										
<b>NAME OF SUBMITTER:</b>	Casimer K. Salys										
Total Attachments: 2											

**CH \$40.00 11941105**

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ASSIGNMENT

Whereas, we,

- (1) **CHARLES J. ALPERT** of CEDAR PARK  
Country of TRAVIS and State of TEXAS
- (2) **ZHUO LI** of AUSTIN *Cedar Park*  
County of TRAVIS *W. Memphis* and State of TEXAS
- (3) **MICHAEL D. MOFFITT** of AUSTIN  
County of TRAVIS and State of TEXAS
- (4) **DAVID A. PAPA** of AUSTIN  
County of TRAVIS and State of TEXAS

have invented certain improvements in

**METHOD FOR INCREMENTAL, TIMING-DRIVEN, PHYSICAL-SYNTHESIS USING DISCRETE OPTIMIZATION**

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

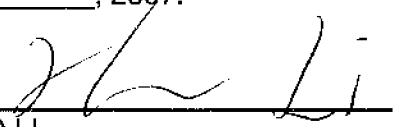
(Dates Inventors Signed Declaration) (1) 11/15, 2007; (2) 11/15, 2007;  
(3) 11/15, 2007; (4) 11/15, 2007.

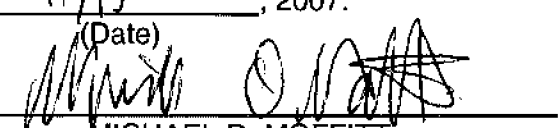
Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents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

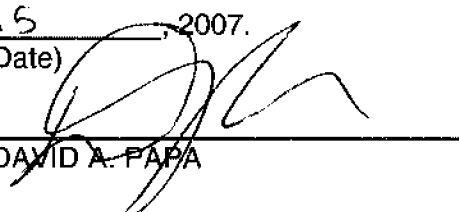
Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, we, the above named, hereby sell, assign, and transfer to IBM, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign 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 11/15, 2007.  
(City) (Date)

Charles J. Alpert  
CHARLES J. ALPERT

(2) Signed at Austin on 11/15, 2007.  
(City) (Date)  
  
ZHUO LI

(3) Signed at Austin on 11/15, 2007.  
(City) (Date)  
  
MICHAEL D. MOFFITT

(4) Signed at Austin on 11/15, 2007.  
(City) (Date)  
  
DAVID A. PAPA