

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

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>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Ivory W. Knipfer</td> <td>12/28/2007</td> </tr> <tr> <td>Jason W. Lee</td> <td>12/28/2007</td> </tr> <tr> <td>Antoine G. Sater</td> <td>12/29/2007</td> </tr> <tr> <td>Manivannan Thavasi</td> <td>12/30/2007</td> </tr> <tr> <td>Yajun Tu</td> <td>12/29/2007</td> </tr> </tbody> </table>		Name	Execution Date	Ivory W. Knipfer	12/28/2007	Jason W. Lee	12/28/2007	Antoine G. Sater	12/29/2007	Manivannan Thavasi	12/30/2007	Yajun Tu	12/29/2007
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Jason W. Lee	12/28/2007												
Antoine G. Sater	12/29/2007												
Manivannan Thavasi	12/30/2007												
Yajun Tu	12/29/2007												
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" 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>11967152</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	11967152								
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CORRESPONDENCE DATA													
Fax Number:	(561)244-1062												
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
Phone:	561-922-3845												
Email:	sgreenberg@crgplaw.com												
Correspondent Name:	Carey, Rodriguez, Greenberg & Paul, LLP												
Address Line 1:	950 Peninsula Corporate Circle												
Address Line 2:	Suite 3020												
Address Line 4:	Boca Raton, FLORIDA 33487												
ATTORNEY DOCKET NUMBER:	CAM920070221US1 (106)												
NAME OF SUBMITTER:	Steven M. Greenberg												

CH \$40.00 11967152

Total Attachments: 8

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ASSIGNMENT

WHEREAS, we:

- (1) Ivory W. Knipfer of Rochester
County of Olmsted State of Minnesota
- (2) Jason S. Lee of Oronoco
County of Olmsted State of Minnesota
- (3) Antoine G. Sater of Rochester
County of Olmsted State of Minnesota
- (4) Manivannan Thavasi of Rochester
County of Olmsted State of Minnesota
- (5) Yajun Tu of ZhenZhen, China

have invented certain improvements in

DYNAMIC ITEM-SPACE ALLOCATION AND RETRIEVAL

and executed, respectively, a United States patent application therefore on the following date(s):

- (1) Dec. 28, 2007
- (2) _____
- (3) _____
- (4) _____
- (5) _____

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at New Orchard Road, 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 therefor;

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.

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- (1) Dec. 20, 2007
- (2) _____
- (3) _____
- (4) Dec. 30, 2007
- (5) _____

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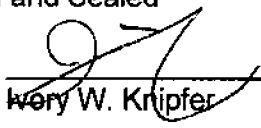
and executed, respectively, a United States patent application therefore on the following date(s):

- (1) _____
- (2) _____
- (3) Dec 29, 2007
- (4) _____
- (5) Dec 29, 2007

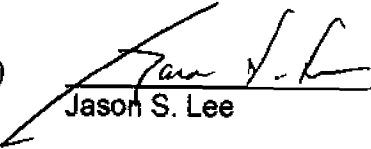
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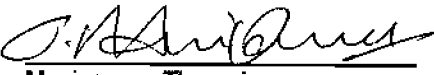
Signed and Sealed

- (1)  on Dec 28, 2007.
Wery W. Krijpfer
- (2) _____ on _____, 2007.
Jason S. Lee
- (3) _____ on _____, 2007.
Antoine G. Sater
- (4) _____ on _____, 2007.
Manivannan Thavasi
- (5) _____ on _____, 2007.
Yajun Tu

Signed and Sealed

- (1) _____ on _____, 2007.
Ivory W. Knipfer
- (2)  _____ on 12-28, 2007.
Jason S. Lee
- (3) _____ on _____, 2007.
Antoine G. Sater
- (4) _____ on _____, 2007.
Manivannan Thavasi
- (5) _____ on _____, 2007.
Yajun Tu

Signed and Sealed


- (1) 
Kerry W. Kripfer on Dec 28, 2007.
- (2) _____
Jason S. Lee on _____, 2007.
- (3) _____
Antoine G. Sater on _____, 2007.
- (4) 
Manivannan Thavasi on Dec 30, 2007.
- (5) _____
Yajun Tu on _____, 2007.

IBM Docket No. CAM920070221US1 (106)

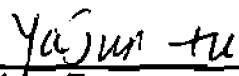
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- (1) _____ on _____, 2007.
Ivory W. Knipfer

- (2) _____ on _____, 2007.
Jason S. Lee

- (3)  on Dec. 29, 2007.
Antoine G. Sater

- (4) _____ on _____, 2007.
Manivannan Thavasi

- (5)  on Dec. 29, 2007.
Yajun Tu