

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>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Subashini Balachandran</td> <td>06/02/2008</td> </tr> <tr> <td>Mihail Corneliu Constantinescu</td> <td>06/03/2008</td> </tr> <tr> <td>Jan Hendrik Pieper</td> <td>06/02/2008</td> </tr> </tbody> </table>		Name	Execution Date	Subashini Balachandran	06/02/2008	Mihail Corneliu Constantinescu	06/03/2008	Jan Hendrik Pieper	06/02/2008
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Subashini Balachandran	06/02/2008								
Mihail Corneliu Constantinescu	06/03/2008								
Jan Hendrik Pieper	06/02/2008								
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>12137462</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12137462				
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Application Number:	12137462								
CORRESPONDENCE DATA									
Fax Number:	(949)223-9610								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
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ATTORNEY DOCKET NUMBER:	ARC920080003US1								
NAME OF SUBMITTER:	Michael Zarrabian, Reg. No. 39886								
<p>Total Attachments: 4 source=Assignment#page1.tif source=Assignment#page2.tif</p>									

CH \$40.00 12137462

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**PATENT
 REEL: 021082 FRAME: 0437**

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ASSIGNMENT

Docket No. ARC920080003US1

Whereas, We

**INVENTOR
AND COUNTY**

(1) Subashini Balachandran
County of Santa Clara

State of California

(2) Mihail Corneliu Constantinescu
County of Santa Clara

State of California

(3) Jan Hendrick Pieper
County of Santa Clara

State of California

have invented certain improvements in

METHOD AND APPARATUS FOR BLOCK SIZE OPTIMIZATION IN DE-DUPLICATION

DATES THAT INVENTORS SIGNED THE DECLARATION and executed, respectively, a United States patent application therefor on

- (1) June 2nd, 2008
- (2) _____, 2008
- (3) _____, 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 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 inventions 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.

Signed and sealed



Subashini Balachandran

on June 2nd, 2008

Mihail Corneliu Constantinescu

on _____, 2008

Jan Hendrick Pieper

on _____, 2008

ASSIGNMENT

Docket No. ARC920080003US1

INVENTOR AND COUNTY Whereas, We

(1) Subashini Balachandran
County of Santa Clara State of California

(2) Mihail Corneliu Constantinescu
County of Santa Clara State of California
 Hendrik JP

(3) Jan Hendrik Pieper
County of Santa Clara State of California

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- (1) _____, 2008
- (2) June 3, 2008
- (3) June 2nd, 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 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 inventions 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.

Signed and sealed

Subashini Balachandran

on _____, 2008

Constantin C

Mihail Corneliu Constantinescu

on June 3, 2008

Jan Hendrik Pieper

Jan Hendrik Pieper

Hendrik

JP

on June 2nd, 2008