

# PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT																						
NATURE OF CONVEYANCE:	ASSIGNMENT																						
<b>CONVEYING PARTY DATA</b> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 70%; padding: 5px;">Name</th> <th style="width: 30%; padding: 5px;">Execution Date</th> </tr> </thead> <tbody> <tr><td style="padding: 5px;">Kenneth Wayne BOYD</td><td style="padding: 5px;">05/21/2008</td></tr> <tr><td style="padding: 5px;">Kenneth Fairclough DAY III</td><td style="padding: 5px;">05/28/2008</td></tr> <tr><td style="padding: 5px;">Gerardo De Jesus FRIAS GARCIA</td><td style="padding: 5px;">04/29/2008</td></tr> <tr><td style="padding: 5px;">John Earle LINDLEY</td><td style="padding: 5px;">05/09/2008</td></tr> <tr><td style="padding: 5px;">Gregory Edward McBRIDE</td><td style="padding: 5px;">05/14/2008</td></tr> <tr><td style="padding: 5px;">Ryusuke ITO</td><td style="padding: 5px;">05/07/2008</td></tr> <tr><td style="padding: 5px;">Yasumitsu MIZOGUCHI</td><td style="padding: 5px;">05/07/2008</td></tr> <tr><td style="padding: 5px;">Kenta NINOSE</td><td style="padding: 5px;">05/07/2008</td></tr> <tr><td style="padding: 5px;">Akinobu SHIMADA</td><td style="padding: 5px;">05/07/2008</td></tr> <tr><td style="padding: 5px;">Tsutomu SUKIGARA</td><td style="padding: 5px;">05/07/2008</td></tr> </tbody> </table>		Name	Execution Date	Kenneth Wayne BOYD	05/21/2008	Kenneth Fairclough DAY III	05/28/2008	Gerardo De Jesus FRIAS GARCIA	04/29/2008	John Earle LINDLEY	05/09/2008	Gregory Edward McBRIDE	05/14/2008	Ryusuke ITO	05/07/2008	Yasumitsu MIZOGUCHI	05/07/2008	Kenta NINOSE	05/07/2008	Akinobu SHIMADA	05/07/2008	Tsutomu SUKIGARA	05/07/2008
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<b>PROPERTY NUMBERS Total: 1</b> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 30%; padding: 5px;">Property Type</th> <th style="padding: 5px;">Number</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">Application Number:</td> <td style="padding: 5px;">12131877</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12131877																		
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<b>CORRESPONDENCE DATA</b>																							

CH \$40.00 12131877

**500606492**

**PATENT**  
**REEL: 021309 FRAME: 0615**

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ATTORNEY DOCKET NUMBER:

TUC920070115US1 (18.239)

NAME OF SUBMITTER:

Patricia McLaughlin

**Total Attachments: 8**

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ASSIGNMENT

Whereas, we

- |                                   |  |
|-----------------------------------|--|
| (1) Kenneth Wayne BOYD            | of Tucson,<br>State of Arizona, and<br>County of Pima                |
| (2) Kenneth Fairclough DAY III    | of Tucson,<br>State of Arizona, and<br>County of Pima                |
| (3) Gerardo De Jesus FRIAS GARCIA | of Morgan Hill,<br>State of California, and<br>County of Santa Clara |
| (4) John Earle LINDLEY            | of San Jose,<br>State of California, and<br>County of Santa Clara    |
| (5) Gregory Edward MCBRIDE        | of Vail,<br>State of Arizona, and<br>County of Pima                  |
| (6) Ryusuke ITO                   | of Kanagawa-ken,<br>Japan  |
| (7) Yasumitsu MIZOGUCHI           | of Kanagawa-ken,<br>Japan  |
| (8) Kenta NINOSE                  | of Kanagawa-ken,<br>Japan  |
| (9) Akinobu SHIMADA               | of Kanagawa-ken,<br>Japan  |
| (10) Tsutomu SUKIGARA             | of Kanagawa-ken,<br>Japan  |

have invented certain improvements in:

MANAGING CONSISTENCY GROUPS USING HETEROGENEOUS REPLICATION ENGINES

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

- (1) 21 May, 2008, (2) 28 May, 2008, (3) \_\_\_\_\_, 2008,  
 (4) \_\_\_\_\_, 2008, (5) 14 May, 2008, (6) \_\_\_\_\_, 2008,  
 (7) \_\_\_\_\_, 2008, (8) \_\_\_\_\_, 2008, (9) \_\_\_\_\_, 2008 and  
 (10) \_\_\_\_\_, 2008

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM CORPORATION), and Hitachi Ltd., a corporation organized and existing under the laws of Japan and having a principal place of business at 6, Kanda Surugadai, 4-chome, Chiyoda-ku, Tokyo 101-8010, Japan (hereinafter called

Hitachi), desire 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 CORPORATION, Hitachi, and their respective 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 CORPORATION, Hitachi, and their respective successors and assigns; and we hereby agree that IBM CORPORATION and Hitachi 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 CORPORATION and/or Hitachi.

Signed and sealed

CITY	(1) at	<u>TUCSON</u>	<u>Kenneth Wayne Boyd</u>	SIGNATURE
DATE	on	<u>21 May</u> , 2008	Kenneth Wayne BOYD	INVENTOR
CITY	(2) at	<u>TUCSON</u>	<u>Kenneth Fairclough Day III</u>	SIGNATURE
DATE	on	<u>28 MAY</u> , 2008	Kenneth Fairclough DAY III	INVENTOR
CITY	(3) at	_____	_____	SIGNATURE
DATE	on	_____, 2008	Gerardo De Jesus FRIAS GARCIA	INVENTOR
CITY	(4) at	_____	_____	SIGNATURE
DATE	on	_____, 2008	John Earle LINDLEY	INVENTOR
CITY	(5) at	<u>Tucson</u>	<u>Gregory Edward McBride</u>	SIGNATURE
DATE	on	<u>14 May</u> , 2008	Gregory Edward MCBRIDE	INVENTOR
CITY	(6) at	_____	_____	SIGNATURE
DATE	on	_____, 2008	Ryusuke ITO	INVENTOR
CITY	(7) at	_____	_____	SIGNATURE
DATE	on	_____, 2008	Yasumitsu MIZOGUCHI	INVENTOR
CITY	(8) at	_____	_____	SIGNATURE
DATE	on	_____, 2008	Kenta NINOSE	INVENTOR
CITY	(9) at	_____	_____	SIGNATURE
DATE	on	_____, 2008	Akinobu SHIMADA	INVENTOR
CITY	(10) at	_____	_____	SIGNATURE
DATE	on	_____, 2008	Tsutomu SUKIGARA	INVENTOR

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Whereas, we

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CITY	(2) at _____	_____	SIGNATURE
DATE	on _____, 2008	Kenneth Fairclough DAY III	INVENTOR
CITY	(3) at <u>MORGAN HILL CA</u>	_____	SIGNATURE
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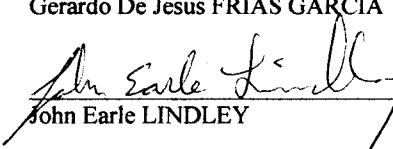
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DATE	on _____, 2008	Gregory Edward MCBRIDE	INVENTOR
CITY	(6) at <u>Kanagawa-ken Japan</u>	<u>Ryusuke ITO</u>	SIGNATURE
DATE	on <u>May 7</u> , 2008	Ryusuke ITO	INVENTOR
CITY	(7) at <u>Kanagawa-ken Japan</u>	<u>Yasumitsu Mizoguchi</u>	SIGNATURE
DATE	on <u>May 7</u> , 2008	Yasumitsu MIZOGUCHI	INVENTOR
CITY	(8) at <u>Kanagawa-ken Japan</u>	<u>Kenta Ninose</u>	SIGNATURE
DATE	on <u>May 7</u> , 2008	Kenta NINOSE	INVENTOR
CITY	(9) at <u>Kanagawa-ken Japan</u>	<u>Akinobu Shimada</u>	SIGNATURE
DATE	on <u>May 7</u> , 2008	Akinobu SHIMADA	INVENTOR
CITY	(10) at <u>Kanagawa-ken Japan</u>	<u>Tsutomu Sukigara</u>	SIGNATURE
DATE	on <u>May 7th</u> , 2008	Tsutomu SUKIGARA	INVENTOR