

## PATENT ASSIGNMENT

Electronic Version v1.1

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| SUBMISSION TYPE:  | NEW ASSIGNMENT                              |                |                     |            |               |            |                     |            |  |
|---|---|----------------|---------------------|------------|---------------|------------|---------------------|------------|--|
| NATURE OF CONVEYANCE:   | ASSIGNMENT                                  |                |                     |            |               |            |                     |            |  |
| CONVEYING PARTY DATA  |   |                |                     |            |               |            |                     |            |  |
| <table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Charles J. Archer</td><td>09/06/2006</td></tr><tr><td>Amanda Peters</td><td>09/06/2006</td></tr><tr><td>Brian P. Wallenfelt</td><td>09/01/2006</td></tr></tbody></table> | Name  | Execution Date | Charles J. Archer   | 09/06/2006 | Amanda Peters | 09/06/2006 | Brian P. Wallenfelt | 09/01/2006 |  |
| Name  | Execution Date                              |                |                     |            |               |            |                     |            |  |
| Charles J. Archer   | 09/06/2006                                  |                |                     |            |               |            |                     |            |  |
| Amanda Peters   | 09/06/2006                                  |                |                     |            |               |            |                     |            |  |
| Brian P. Wallenfelt   | 09/01/2006                                  |                |                     |            |               |            |                     |            |  |
| RECEIVING PARTY DATA  |   |                |                     |            |               |            |                     |            |  |
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| PROPERTY NUMBERS Total: 1   |   |                |                     |            |               |            |                     |            |  |
| <table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>11531175</td></tr></tbody></table>  | Property Type                               | Number         | Application Number: | 11531175   |               |            |                     |            |  |
| Property Type   | Number                                      |                |                     |            |               |            |                     |            |  |
| Application Number:   | 11531175                                    |                |                     |            |               |            |                     |            |  |
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| NAME OF SUBMITTER:  | Grant A. Johnson                            |                |                     |            |               |            |                     |            |  |
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CH 11531175 \$40.00

PATENT

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REEL: 018237 FRAME: 0109

# A S S I G N M E N T

Whereas, we

- |     |   |   |
|-----|---|---|
| (1) | Charles J. Archer,<br>County of Olmsted,    | City of Rochester,<br>and State of Minnesota, |
| (2) | Amanda Peters,<br>County of Olmsted,        | City of Rochester,<br>and State of Minnesota, |
| (3) | Brian P. Wallenfelt,<br>County of Hennepin, | City of Plymouth,<br>and State of Minnesota,  |

have invented certain improvements in

## PERFORMING PROCESS MIGRATION WITH ALLREDUCE OPERATIONS

and have executed, respectively, a United States patent application therefor on

Dates

Inventors      (1) September 6      , 2006, and      (2) September 6      , 2006, and

Signed      (3) September 1      , 2006.

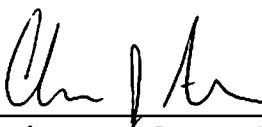
Declaration

And 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 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.


Signed

Inventor      at Rochester, Minnesota  
(1)      on 9/6, 2006.

  
 \_\_\_\_\_  
 (Charles      J.      Archer)  
 First Name      Initial      Last Name


Inventor  
Signature

Inventor  
(2) at Rochester, Minnesota  
on 9/6, 2006.

  
(Amanda Peters)  
First Name Initial Last Name

Inventor  
Signature

Inventor  
(3) at Plymouth, Minnesota  
on Sept. 1, 2006.

  
(Brian P. Wallenfelt)  
First Name Initial Last Name

Inventor  
Signature