

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>Dong Chen</td> <td>08/02/2007</td> </tr> <tr> <td>Alan G. Gara</td> <td>08/03/2007</td> </tr> <tr> <td>Philip Heidelberger</td> <td>07/31/2007</td> </tr> <tr> <td>Pavlos Vranas</td> <td>09/05/2007</td> </tr> </tbody> </table>		Name	Execution Date	Dong Chen	08/02/2007	Alan G. Gara	08/03/2007	Philip Heidelberger	07/31/2007	Pavlos Vranas	09/05/2007
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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>11768781</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	11768781						
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Application Number:	11768781										
CORRESPONDENCE DATA											
Fax Number:	(516)742-4366										
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NAME OF SUBMITTER:	Steven Fischman										
Total Attachments: 2											

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500437326

**PATENT
 REEL: 020351 FRAME: 0964**

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ASSIGNMENT

Whereas, we

INVENTOR
AND CITY

(1) Dong Chen
County of Westchester

and (2) Alan G. Gara
County of Westchester

and (3) Philip Heidelberger
County of Westchester

and (4) Pavlos Vranas
County of Contra Costa

of Croton on Hudson,
and State of New York,

of Mount Kisco,
and State of New York,

of Cortlandt Manor,
and State of New York,

of Danville,
and State of California

have invented certain improvements in

TITLE

DMA SHARED BYTE COUNTERS IN A PARALLEL COMPUTER

DATES THAT
INVENTORS
SIGNED THE
DECLARATION

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

(1) August 2, 2007, (2) August 3rd, 2007, (3) July 31, 2007,
(4) _____, 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 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

Dong Chen
Dong Chen

on August 2, 2007

Alan G. Gara
Alan G. Gara

on August 3, 2007

Philip Heidelberger
Philip Heidelberger

on July 31, 2007

Pavlos Vranas

on _____, 2007

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(1) _____, 2007, (2) _____, 2007, (3) _____,
(4) 9/5, 2007.

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Signed and sealed

Dong Chen

on _____, 2007

Alan G. Gara

on _____, 2007

Philip Heidelberger
Pavlos M. Vranas

Pavlos Vranas

on _____, 2007

on 9/5, 2007