

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

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>Michael W. Dotson</td><td>02/22/2008</td></tr><tr><td>Anthony DeGroff Drumm</td><td>02/22/2008</td></tr><tr><td>Dazhuang Ma</td><td>02/21/2008</td></tr><tr><td>Ruchir Puri</td><td>02/21/2008</td></tr><tr><td>Louise H. Trevillyan</td><td>02/21/2008</td></tr></tbody></table>	Name	Execution Date	Michael W. Dotson	02/22/2008	Anthony DeGroff Drumm	02/22/2008	Dazhuang Ma	02/21/2008	Ruchir Puri	02/21/2008	Louise H. Trevillyan	02/21/2008	
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Ruchir Puri	02/21/2008												
Louise H. Trevillyan	02/21/2008												
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"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>12035950</td></tr></tbody></table>	Property Type	Number	Application Number:	12035950									
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CORRESPONDENCE DATA													
Fax Number: (732)530-9808 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
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NAME OF SUBMITTER:	Kin-Wah Tong												

CH \$40.00 12035950

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PATENT
REEL: 020563 FRAME: 0390

Total Attachments: 5

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PATENT

REEL: 020563 FRAME: 0391

Assignment

Whereas, we

INVENTOR AND CITY	(1) Michael W. Dotson County of Broome	of Binghamton and State of New York
INVENTOR AND CITY	(2) Anthony DeGroff Drumm County of Olmsted	of Rochester and State of Minnesota
INVENTOR AND CITY	(3) Dazhuang Ma County of Westchester	of White Plains and State of New York
INVENTOR AND CITY	(4) Ruchir Puri County of Westchester	of Baldwin Place and State of New York
INVENTOR AND CITY	(5) Louise H. Trevillyan County of Westchester	of Katonah and State of New York

have invented certain improvements in

METHOD AND APPARATUS FOR PARALLEL PROCESSING OF SEMICONDUCTOR CHIP DESIGNS

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

DATES THAT INVENTORS SIGNED THE DECLARATION	(1) Michael W. Dotson, (2) Anthony DeGroff Drumm, (3) Dazhuang Ma, (4) Ruchir Puri, (5) Louise H. Trevillyan,	February 22, 2008 February 22, 2008 February 21, 2008 February 21, 2008 February 21, 2008
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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 therefore;

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, including all rights to claim priority resulting from the filing of said United States application, and to any and all improvements in which are disclosed in the 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

CITY AND DATE (1) at on 2/22, 2008 Michael W. Dotson (Signature)
Michael W. Dotson (Inventor)
FIRST NAME MIDDLE INITIAL LAST NAME

CITY AND DATE (2) at on, 2008 (Signature)
Anthony DeGroff Drumm (Inventor)
FIRST NAME MIDDLE INITIAL LAST NAME

CITY AND DATE (3) at on, 2008 (Signature)
Dazhuang Ma (Inventor)
FIRST NAME MIDDLE INITIAL LAST NAME

CITY AND DATE (4) at on, 2008 (Signature)
Ruchir Puri (Inventor)
FIRST NAME MIDDLE INITIAL LAST NAME

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

CITY AND DATE (1) at _____, 2008 _____ (Signature)
 on _____ (Inventor)
 Michael W. Dotson
 FIRST NAME MIDDLE INITIAL LAST NAME

CITY AND DATE (2) at ROCHESTER, MN
 on 22 FEBRUARY, 2008 Anthony DeGroff Drumm (Signature)
 FIRST NAME MIDDLE INITIAL LAST NAME (Inventor)

CITY AND DATE (3) at _____, 2008 _____ (Signature)
 on _____ (Inventor)
 Dazhuang Ma
 FIRST NAME MIDDLE INITIAL LAST NAME

CITY AND DATE (4) at _____, 2008 _____ (Signature)
 on _____ (Inventor)
 Ruchir Puri
 FIRST NAME MIDDLE INITIAL LAST NAME

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Signed and sealed

CITY AND
DATE

(1) at
on

, 2008

Michael
FIRST NAME

W.
MIDDLE INITIAL

Dotson
LAST NAME

(Signature)
(Inventor)

CITY AND
DATE

(2) at
on

, 2008

Anthony
FIRST NAME

DeGroff
MIDDLE INITIAL

Drumm
LAST NAME

(Signature)
(Inventor)

CITY AND
DATE

(3) at *White Plains*
on *02/21/08*, 2008

Dazhuang
FIRST NAME

MIDDLE INITIAL

Ma
LAST NAME

(Signature)
(Inventor)

CITY AND
DATE

(4) at *Yorktown Hts.*
on *02/21/08*, 2008

Ruchir
FIRST NAME

MIDDLE INITIAL

Puri
LAST NAME

(Signature)
(Inventor)

CITY AND
DATE

(5) at *Yorktown Hbtp*
on *Feb 21*, 2008 *Louise H. Trevillyan* (Signature)
FIRST NAME MIDDLE INITIAL LAST NAME (Inventor)