Form <b>PTO-1595</b> (Rev. 09/ 04) DMB No. 0851-0027 (exp. 6/30/2005)	U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office			
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Philippe M. Vereecken (12/09/2004),	Name: Intomational Business Machines Corporation			
Veeraraghavan S. Basker (12/09/2004), Cyril Cabral, Jr. (01/27/2005),	Internal Address:			
Execution Date(s): in parentheses after inventor name	Street Address:			
Additional name(s) of conveying party(les) attached? X Yes No				
3. Nature of Conveyance:	New Orchard Road			
x Assignment Merger				
Security Agreement Change of Name	City: Armonk			
Government Interest Assignment	State: New York			
Executive Order 9424, Confirmatory License	Country: United States of America Zip: 10504			
Other	Additional name(s) & address(es) Yes X No attached:			
4. Application or patent number(s):	his document is being filed together with a new application.			
A. Patent Application No.(\$)	B. Patent No.(s)			
11/050,790				
•				
Additional numbers attached?	Ye\$ X No			
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:			
Name: Burton A. Amernick CONNOLLY BOVE LODGE & HUTZ LLP	7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00			
Internal Address: Atty. Dkt.: 20140-00325-US1	Authorized to be charged by credit card			
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	None required (government interest not affecting title)			
City: Washington	8. Payment Information			
State: DC zip: _20036-3425	a. Credit Card Last 4 Numbers			
Phone Number: (202) 331-7111	Expiration Date			
Fax Number: (202) 293-6229	b. Deposit Account Number 50-0510			
Email Address: BAmernick@cblh.com	Authorized User Name Burton A. Amernick			
9. Signature:	June 22, 200 <u>5</u>			
Signature	Date			
Matthew Mason - 44,904	Total number of pages Including cover 5			
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I hereby certify that this correspondence is being facsimile transmitte 5995, on the date shown below	ed to the Patent and Transmark Office, facsimile no. (703) 305-			
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**PATENT REEL: 016392 FRAME: 0236** 

Form PTO-1595	RECO	ORDATION FORM COVER SHEET (CONTINUED)	
Additional Conveyi	ng Party(ies)/Exe	ecution Date(s) (1. Continued):	
Emanuel I. Cooper (01 Rajarao Jammy (01/27 Xiaoyan Shao (01/27/2	7/2005), Vamsi K. Pa	Deliglanni (01/27/2005), Martin M. Franl aruchuri (01/27/2005), Katherine L. Sae	k (01/27/2005), nger (01/27/2005), and
Additional Assigned	es (2. Continued	):	
Assignee Name:	<u> </u>		
Internal Address:			
Street Address:			
City:	State:	Country:	Zlp:
Assignee Name:			
Internal Address:			
Street Address:			
City:	State:	Country:	Zip;
Annianaa Nama			
Assignee Name: Internal Address:		•	<del></del>
Street Address:			
City:	State:	Country:	Zlp:
 Additional Application	ons and/or Pater	nts (4. Continued):	
Additional Patent Application 4A. Continued:	Numbers	Additional Patent Numbers 4B. Continued:	
	Additional numbe	ers attached? Yes No	

Docket No.: 20140-00325-US1 **PATENT** 

## ASSIGNMENT

YOR920040434US1 (20140/00325) Page 1 of 3

Whereas, We,

Philippe M. Vereecken County of Westchester

City of Sleepy Hollow and State of New York

Veeraraghavan S. Basker County of Westchester

City of Yorktown Heights and State of New York

Cyril Cabral Jr County of Butnam

City of Mahopac and State of New York

Emanuel I. Cooper County of Westchester

City of Scarsdale and State of New York

Hariklia Deligianni County of Bergen

City of Tenafly

Martin M. Frank

and State of New Jersey

County of New York

City of New York and State of New York

Rajarao Jammy County of Dutchess

City of Hopewell Junction and State of New York

Vamsi Krishna Paruchuri County of New York

City of New York and State of New York

Katherine L. Saenger County of Weschester

City of Ossining and State of New York

Xiaoyan Shao County of Westchester

City of Yorktown Heights and State of New York

have invented certain improvements in Gate Stack Engineering By Electrochemical Processing Utilizing Through-Gate-Dielectric Current Flow

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

PATENT REEL: 016392 FRAME: 0238

(3)	January 27, 2005	
(4)	January 27, 2005	
(6)	January 27, 2005 January 27, 2005	
(7)	January 27, 2005	
(8) _	1/27/05	
(9) _	1/27/05	_
(10)	01-27-2005	 _

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 AND SEALED

(1) signed at Yorkfour Heights, NY on December 9th 2004

(2) signed at YORKTOWN HEIGHTS, NY On December 9th, 2004

(3) signed at Yuktown Heights, NY
on January 27, 2005

(4) signed at Yorktown Heights, NY on January 27th 2005 Philippe Vereecken

ryh

KATHERING L. STERREY VEERARACHYVAN S. BASKER

Cyrit Cabral Jr.

Emanuel I. Cooper

PATENT REEL: 016392 FRAME: 0239

- (5) signed at Yorktown Heights, NY on 01/27/05
- (6) signed at York hown Heights, by on of 127/05
- (7) signed at Yorklown Heights, My
  on 01/27/05
- (8) signed at YOKkown Height, Ny on 1/27/05
- (9) signed at Yorkfown HH-5, NY
  on 1/27/05
- (10) signed at Yorktown Heights, NY
  on 01/27/05

Hariklia Deligianni

Martin M. Frank

Rajarao Jammy

P.Vami kuilma Vamsi Krishna Paruchuri

Katherine S. Saenger Katherine L. Saenger

Xiaoyan Shao