Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
John E. Barth Jr.	07/30/2008
Kangguo Cheng	07/31/2008
Michael Sperling	07/30/2008
Geng Wang	07/31/2008

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

Property Type	Number
Application Number:	12186780

CORRESPONDENCE DATA

Fax Number: (845)892-6363

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

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Address Line 2: Sean Sullivan

Address Line 4: Hartford, CONNECTICUT 06103

ATTORNEY DOCKET NUMBER:	FIS920080140US1
NAME OF SUBMITTER:	Joseph P. Abate

Total Attachments: 4

PATENT REEL: 021392 FRAME: 0590

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ASSIGNMENT

Whereas, I/we

- (1) John E. Barth, Jr., City of Williston, County of Chittenden and State of Vermont;
- (2) Kangguo Cheng, City of Guilderland, County of Albany and State of New York;
 (3) Michael Sperling, City of Poughkeepsie, County of Dutchess and State of New York;
 (4) Geng Wang, City of Stormville, County of Dutchess and State of New York;

\mathbf{D} I

	have invented certain improve	ements in		
	TED CIRCUITS COMPRISING A TRENCH CAPACITOR BY AN C			
	and executed, respectively, a	United States pate	nt application therefor on	
	(1), 2008,	(2)	_, 2008,	
	(3), 2008,	(4) <u>7/3//</u>	, 2008	
of busine interest in Now ther hereby so application and all right Commissions IBM, its so invention	is, INTERNATIONAL BUSINESS MAC ess at Armonk, New York 10504, (her in the said application and invention, a refore, for a valuable consideration, re- ell, assign, and transfer to IBM, its sub- on and invention therein disclosed for ghts of priority resulting from the filing sioner of Patents to issue any Letters successors and assigns; and we here and we will execute all papers neces led upon to do so by IBM.	reinafter called IBM) and to any United Sieceipt whereof is he accessors and assign the United States agof said United State Patent granted upoeby agree that IBM research	, desires to acquire the entire rates and foreign patents to be reby acknowledged, we, the ans, the entire right, title and in and foreign countries, and in a es application, and we reques on the inventions set forth in so may apply for foreign Letters F	right, title and e obtained therefor; above named, terest in the said II foreign countries, at the aid application to Patent on said
(1)		on	, 2008	
(2)		on	, 2008	
(3)		on	, 2008	
(4)		on	7/3/, 2008	

ASSIGNMENT

Whereas, I/we

- (1) John E. Barth, Jr., City of Williston, County of Chittenden and State of Vermont;
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 (3) Michael Sperling, City of Poughkeepsie, County of Dutchess and State of New York;
 (4) Geng Wang, City of Stormville, County of Dutchess and State of New York;

	have invented certain	improvements in		
				ECTRICALLY CONNECTED METHODS OF MAKING
	and executed, respec	tively, a United State	es patent application th	erefor on
	(1)	, 2008, (2)	, 2008,	
	(1) (3) July 30	, 2008, (4)	, 2008	
of business at A interest in the s Now therefore, hereby sell, ass application and and all rights of Commissioner IBM, its succes invention and w	Armonk, New York 105 aid application and investign, and transfer to IBM invention therein discked priority resulting from soft Patents to issue any sors and assigns; and we will execute all paper on to do so by IBM.	04, (hereinafter calle ention, and to any U ration, receipt where M, its successors an osed for the United S the filing of said United Letters Patent gran we hereby agree tha	ed IBM), desires to acc nited States and foreign of is hereby acknowled d assigns, the entire right States and foreign counted States application, ted upon the inventional at IBM may apply for foreigness.	ation of New York, having a place puire the entire right, title and in patents to be obtained therefor; adged, we, the above named, ght, title and interest in the said intries, and in all foreign countries, and we request the set forth in said application to reign Letters Patent on said States and foreign applications
_			on	, 2008
(2)			on	., 2008
(3) Michael	April.		on July 30	., 2008
(4)			on	_, 2008

ASSIGNMENT

Whereas, I/we

- John E. Barth, Jr., City of Williston, County of Chittenden and State of Vermont;
 Kangguo Cheng, City of Guilderland, County of Albany and State of New York;
 Michael Sperling, City of Poughkeepsie, County of Dutchess and State of New York;
 Geng Wang, City of Stormville, County of Dutchess and State of New York;

D

	have invented certain	n improvements	in		
INTEGRATED TO A TREE	CIRCUITS COMPRINCH CAPACITOR B	ISING AN AC Y AN OVERL	TIVE TRA YING COI	NSISTOR E	ELECTRICALLY CONNECTE D METHODS OF MAKING
	and executed, respe				therefor on
	(1)	_, 2008, (2)	/31	_, 2008,	
	(3)	_, 2008, (4)		_, 2008	
interest in the Now therefore hereby sell, as application an and all rights of Commissione IBM, its succe invention and	said application and invention and invention therein disclored priority resulting from r of Patents to issue any essors and assigns; and we will execute all pape pon to do so by IBM.	ration, and to an ration, receipt what it is successored for the Unit the filing of said and the feet the Patent of the perebulance.	called IBM), hy United St hereof is her s and assign ted States a United State granted upon	desires to acates and fore reby acknowles, the entire and foreign cores application the invention are application as application are application are applications.	oration of New York, having a place equire the entire right, title and ign patents to be obtained therefor edged, we, the above named, right, title and interest in the said untries, and in all foreign countries and we request the ns set forth in said application to foreign Letters Patent on said d States and foreign applications
•			on		_, 2008
(2)			on <u>7/</u>	31	_, 2008
(3)			on		_, 2008
(4)			on		, 2008

ASSIGNMENT

Whereas, I/we

- (1) John E. Barth, Jr., City of Williston, County of Chittenden and State of Vermont;
- (2) Kangguo Cheng, City of Guilderland, County of Albany and State of New York;
- (3) Michael Sperling, City of Poughkeepsie, County of Dutchess and State of New York;
- (4) Geng Wang, City of Stormville, County of Dutchess and State of New York;

have invented certain improvements in

INTEGRATED CIRCUITS COMPRISING AN ACTIVE TRANSISTOR ELECTRICALLY CONNECTED TO A TRENCH CAPACITOR BY AN OVERLYING CONTACT AND METIIODS OF MAKING

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

(1)	7014	<u>30 </u>	, 2008, (2)		, 2008,
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(3) _____, 2008, (4) _____, 2008

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

(1) Jelie Banty on July 30

(2)______, 2008

(3)_______ on ______, 2008

, 2008

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RECORDED: 08/14/2008

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REEL: 021392 FRAME: 0595