		-	Docket No.: F	18920000363US1 (14128)
FORM PTO-1595 (Modified) (Rev. 6-93) OMB No. 0651-0011 (exp.4/94) Convicted 1996-97 Legal Star	06-12-	AIIII B1833 (61) 481) 1881	ET U.S	S. DEPARTMENT OF Patent and Trad	
Copyright 1996-97 LegalStar P08A/REV02				_	_
Tab settings → → → ▼ To the Honorable Commissioner of Pate	101745	430	attached original	documents or cop	v thereof
Name of conveying party(ies):	uno maiomano.	יטוו טוטטיי ויטטיי	dress of receiving		y mereor.
John A. Fifield Daniel W. Storas	ska	E. Hame and add	2000 OF TEOEIVILIS	party(163).	
Toshiaki Kirihata		Name: International Business Machines Corporation			
Wing K. Luk Jeremy K. Stephens	//0/	Address: New	Orchard Road		。比響!
<u>-</u>	Yes ⊠ No	<u></u>			La SI
3. Nature of conveyance:				MATERIAL MAT	
☑ Assignment	ger				60 E
☐ Security Agreement ☐ Char	nge of Name	City: Armonk		State/Prov.: N	Y
Other		Country: USA		ZIP: 10504	
Execution Date: 5/29; 5/21; 5/24; 5/21; 5/	/21/01	Additional name(s)	& address(es)	□ Yes □	No
4. Application number(s) or registration numbe	ers(s):]
If this document is being filed together with a	a new application,	the execution date	of the application	n is: 5/29; 5/21;	: 5/24
Patent Application No. Filing date	1	B. Paten	t No.(s)	5/21; 5/21/	/o1
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01 FC:581 40.00 CH	Additional numbers	☐ Yes ☐ N	lo		
5. Name and address of party to whom corresp concerning document should be mailed:		6. Total number of	of applications and	d patents involved	
Name: Richard L. Catania, Esq.		7. Total fee (37 C	FR 3.41):	\$ 40.00	
Registration No. 32,608		□ Enclosed		sufficiency should	be
Address: Scully, Scott, Murphy & Presser					
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400 Garden City Plaza		i -			
		8. Deposit accou	int number.		
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Statement and signature. To the best of my knowledge and belief, the state of	e foregoing inform	ation is true and c	UITEUL AND ANY AR		
of the original document.	<i>(</i> *	14/61		5/31/01	
Daryl K. Neff, Esq. Reg. 38,253		Signature	Γ.	Date	
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PATENT REEL: 011873 FRAME: 0181 IBM Docket No.: FIS920000363US1

SSM&P Docket No.: 14128

ASSIGNMENT

Whereas, we

Inventor and City (1) John A. Fifield **County of Chittenden**

City of Underhill and State of Vermont

and

(2) Toshiaki Kirihata **County of Dutchess**

City of Poughkeepsie and State of New York

and

(3) Wing K. Luk **County of Westchester** City of Chappagua and State of New York

and

(4) Jeremy K. Stephens **County of Orange**

City of New Windsor and State of New York

and

(5) Daniel W. Storaska **County of Dutchess**

City of Wappingers Falls and State of New York

have invented certain improvements in

SINGLE BITLINE DIRECT SENSING ARCHITECTURE FOR HIGH SPEED MEMORY DEVICE

Dates That Inventors Signed the Declaration and have executed, respectively, a United States patent application therefor on

2001, and (2)

2001, and

2001, and (4)

2001, and

(5)

2001.

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.

City

(1) Signed at Essex 5c7, VI

Date

5-29-01

Fifield

signature inventor

) inventor

City

(2) Signed at

Date

on

Middle Initial

Last Name

signature

(Toshiaki First Name

First Name

Middle Initial

Kirihata

Last Name

REEL: 011873 FRAME: 0182

City	(3) Signed at				
Date	on	(Wing First Name	K. Middle Initial	Luk Last Name	signature) inventor
City	(4) Signed at				
Date	on	(Jeremy First Name	K. Middle Initial	Stephens Last Name	signature) inventor
City	(5) Signed at				
Date	on	(Daniel First Name	W. Middle Initial	Storaska Last Name	_ signature) inventor

ASSIGNMENT

Whereas, we

(1) John A. Fifield City of Underhill Inventor and State of Vermont **County of Chittenden** and City City of Poughkeepsie (2) Toshiaki Kirihata and and State of New York County of Dutchess and (3) Wing K. Luk City of Chappagua and State of New York **County of Westchester City of New Windsor** and (4) Jeremy K. Stephens and State of New York County of Orange City of Wappingers Falls and (5) Daniel W. Storaska and State of New York **County of Dutchess**

have invented certain improvements in

SINGLE BITLINE DIRECT SENSING ARCHITECTURE FOR HIGH SPEED MEMORY DEVICE

Dates That Inventors
Signed the

Declaration

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

(1) 2001, and (2) 5/2|10| 2001, and (3) 2001, and (4) $\sqrt[3]{2}$ 2001, and (5) 5/21/61 2001, and (6) 2001.

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.

City	(1) Signed at	·			_ signature	
Date	on	(John First Name	A. Middle Initial	Fifiel) Last Name	inventor	
City	(2) Signed at East Fulk.11	Joshichi	Kuta		signature	
Date	on 5/21/01	(Toshiaki First Name	Middle Initial	Kirihata Last Name) inventor	

Page -1-

City (3) Signed at Date on signature K.) inventor Wing Luk First Name Middle Initial Last Name (4) Signed at East Fishkill City signature Date) inventor Stephens Middle Jaitial Last Name (5) Signed at East Fishkill City 5/21/01 signature Date) inventor

First Name

Middle Initial

Last Name

ASSIGNMENT

Whereas, we Inventor (1) John A. Fifield City of Underhill and City County of Chittenden and State of Vermont and (2) Toshiaki Kirihata City of Poughkeepsie **County of Dutchess** and State of New York and (3) Wing K. Luk City of Chappagua County of Westchester and State of New York and (4) Jeremy K. Stephens **City of New Windsor** County of Orange and State of New York and (5) Daniel W. Storaska City of Wappingers Falls **County of Dutchess** and State of New York have invented certain improvements in SINGLE BITLINE DIRECT SENSING ARCHITECTURE FOR HIGH SPEED MEMORY DEVICE **Dates That** and have executed, respectively, a United States patent application therefor on Inventors (1) Signed the 2001, and (2) 2001, and 5/24/2001 Declaration (3) 2001, and (4) 2001, and 2001.

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.

City	(1) Signed at				
Date	on	(John First Name	A. Middle Initial	Fifiel) Last Name	_ signature inventor
City	(2) Signed at				signature
Date	on	(Toshiaki First Name	Middle Initial	Kirihata Last Name) inventor

Page -1-

REEL: 011873 FRAME: 0186

City	(3) Signed at Youthbrea He	ight, NY	•		
Date	on 5/24/2001	(Wing	Lulwyhi		
		First Name	K,/ Middle Initial	Luk Last Name	signature) inventor
City	(4) Signed at				
Date	on				•••···· •
		(Jeremy First Name	K. Middle Initial	Stephens Last Name	signature) inventor
City	(5) Signed at				
Date	on				
		(Daniel First Name	W. Middle Initial	Storaska Last Name	_ signature) inventor