MRO 8-21-98

08-31-1998

/. Docket No. Y0998-037

To The Honoral 100810497 arents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies) Emanuel I. Cooper Madhav Datta Thomas E. Dinan, Jr. Thomas S. Kanarsky Michael B. Pike Ravindra V. Shenoy Additional name(s) of conveying party(ies) attached?Yes _X_No	2. Name and address of receiving party(ies): Name: IBM Corporation Address: New Orchard Road Armonk, NY 10504 Additional name(s) & addresses attached?Yes _X_No			
3. Nature of conveyance: X Assignment Execution Date(s):08/19/98 08/18/98 07/30/98 08/04/98 08/03/98 07/21/98 respectively	Patent Application number(s) S.N. Execution Date(s):08/19/98 08/18/98 07/30/98 08/04/98 08/03/98 07/21/98 respectively			
5. Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications involved: 1			
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Assignment

Whereas, we

Inventor and City

DECLARATION

Emanuel I. Cooper (1) County of Bronx Vestchester E.C. 8/19/98

E.C. 8/19/98 of Bronx Scarsdale and State of New York

and (2) Madhav Datta County of Westchester of Yorktown Heights and State of New York

and (3) Thomas E. Dinan, Jr. County of Santa Clara

of San Jose and State of California

and (4) Thomas S. Kanarsky County of Dutchess

of Hopewell Junction and State of New York

and (5) Michael B. Pike County of Dutchess

of Hopewell Junction and State of New York

and (6) Ravindra V. Shenoy County of Santa Clara

of Santa Clara

and State of California

have invented certain improvements in

TITLE METHODS FOR MONITORING COMPONENTS IN THE TIW ETCHING BATH USED IN THE FABRICATION OF C4s

and executed, respectively, a United States patent application therefor on (1) August 18, 1998 and (3) July 30 (1) 8/4/98, 1998, and (5) August 3 1998, and (6) July 21, DATES THAT ,1998 INVENTORS (4) SIGNED THE

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 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.

CITY	s (1) at	igned a	and sea	aled Sub, N1	E	annel	I,		Cary	<u>_</u>
DATE	0	n S/	119.	1998,	(Ema	nuel	I	•	7	Coo
		,			FIRST NAME	MIDDLE	INITIAL	LAST N	JAME	

Signed and sealed and (2) at Yoktown Kery CITY DATE (Madhav

SIGNATURE Datta) INVENTOR

SIGNATURE) INVENTOR

FIRST NAME MIDDLE INITIAL LAST NAME

Signed and sealed and (3) at SAN JOSE, CA CITY on July 30 ; 1998, DATE

Dinan, Jr.) INVENTOR FIRST NAME MIDDLE INITIAL LAST NAME

DOCKET NO. Y0998-037
Page 2 of 3

CITY DATE	and	Signed and sealed (4) at F_{ost} fishkill, N.Y. on F_{ost} /98 , 1998,	(Thomas FIRST NAME MIDDLE INIT:	S. Kanarsky) INVENTOR IAL LAST NAME
CITY DATE	and	Signed and sealed (5) at East Fishk!!, WY on 8, 3, 1998,	Michael FIRST NAME MIDDLE INIT:	B. Pike) INVENTOR
CITY DATE	and 24	Signed and sealed (6) at MILPITAS, CA on 21st July, 1998,	(Ravindra FIRST NAME MIDDLE INIT:	V. Shenoy) inventor lal Last NAME
		State of New York County of Westchester)ss.:)	
INVENT	OR	Emanuel I. Cooper	who executed the foregoing	know, and known to me to be the g assignment, and he acknowledged
				Cleichellebaur.
				Notary MICHELLE PARRA Notary Public, State of New York No. 01PA5089349
		State of County of)ss.:)	Qualified in Dutchess County Commission Expires December 8, 1999
INVENT	OR 2)	Madhav Datta	who executed the foregoin	ly know, and known to me to be the ng assignment, and he acknowledged

Notary
MICHELLE PARRA
Notary Public, State of New York
No. 01PA5089349
Qualified in Dutchess County
Commissio Expires December 8, 1998

State of CALIFORNIA)ss.: 557-15-9715 County of SANTA CLARA)

INVENTOR

On this 30 day of July 1998, before me personally came
Thomas E. Dinan, Jr. to me personally know, and known to me to be the person described in and who executed the foregoing assignment, and he acknowledged

to me that he executed the same as his free act and deed.

LORETTA J SANDOVA COMM. # 1051138 Motory Public - Colifornia SE VIA CLARA COUNTY My Commission in FEB 5, 1000

Louter J. Sondow of

State of New York County of Surchess)

On this 4th day of Curyunt 1998, before me personally came
Thomas S. Kanarsky to me personally know, and known to me to be the

INVENTOR (4)

(3)

person described in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed.

State of NEW YORK)SS.: County of DUTCHESS)

LINDA Jo GRAY

Notary Public, State of New York

No. 01GR5012090

Qualified in Distance Qualified in Dutchess County Term Expires: 06/15/99

3 day of August 1998, before me personally came On this

INVENTOR (5)

Michael B. Pike to me personally know, and known to me to be the person described in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed.

State of CAMFORNIA) SS.: 553-53-2152

Notary Public, State of New York
No. 01GR5012090

Qualified in Dutchess County
Term Expires. 06/15/44

On this 2/57 day of July 1998, before me personally came Ravindra V. Shenoy to me personally know, and know

INVENTOR (6)

RECORDED: 08/21/1998

to me personally know, and known to me to be the person described in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed.

Michelle Tous

PATENT REEL: 9400 FRAME: 0925