RECORDATION FORM COVER SHEET **PATENTS ONLY**

US Department of Comm

101384231

Patent & Trademark

To the Assistant Commissioner of Patents: Please record the attached original documents or copy thereof 1. Name of conveying party(ies): 2. Name and address of receiving party(ies 1.30.00 Sandeep Kishan Singhal Name: IBM Corporation **Edith Helen Stern** Barry E. Willner Street Address: New Orchard Road City: Armonk State: NY ZIP: 10504 Additional name(s) of conveying Additional name(s) & address(es) attached? party(ies) attached Yes XX No __Yes XX No 3. Nature of conveyance: Execution Date: May 17, 2000 May 26, 2000 XX Assignment May 22, 2000 4. Application number(s) or patent number(s): If this document is being filed together with a new patent application, the execution date of the patent application is: May 17, 2000; May 26, 2000; and May 22, 2000. A. Patent Application No.(s) B. Patent No.(s) Additional numbers attached? __Yes XX No 5. Name and address of party to whom 6. Total Number of applications and patents correspondence concerning document involved: One should be mailed: Name: Total fee (37 CFR 3.41) \$ 40.00 Joseph A. Sawyer, Jr. Internal Enclosed Address: Sawyer Law Group LLP XX Authorized to be charged to deposit account Street Address: P.O. Box 51418 Palo Alto, California 94303 Deposit Account Number: 09-0452 (IBM Corp.) (Attach copy of this page) 6/2000 ASCOTT 00000035 090452 09585231 FC: 581 Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Date Stephen G. Sullivan, Reg. No. 38,329

REEL: 010853 FRAME: 0109

ASSIGNMENT

of **Raleigh**, and State of **North Carolina**

of **Boca Raton**, and State of **Florida**

Whereas,	I/We
----------	------

(1)

(2)

Sandeep Kishan Singhal County of Wake

Edith Helen Stern

County of Palm Beach

(3)	County of Westchester		or Briarciiff Manor, and State of New York		
	have invented certain im	provements in			
TITLE	METHOD AND SYSTEM FOR INCREASING EASE-OF-USE AND BANDWIDTH UTILIZATION IN WIRELESS DEVICES				
	and executed a United S	States Patent Application t	herefor on the following date(s):		
	(1)	<u>1</u> , 2000			
	(2)	, 2000			
	(3)	, 2000			
lace of bus	iness at Armonk, New Yorl	k 10504, (hereinafter cal	DRPORATION, a corporation of New York, having a led IBM), desires to acquire the entire right, title and lates and foreign patents to be obtained therefor;		
nereby sell, application a rom the filing granted upor BM may app	assign, and transfer to IBI nd invention therein disclose g of said United States appli n the inventions set forth in	M, its successors and a ed for the United States a ication, and we request the said application to IBM, it on said invention and w	ereof is hereby acknowledged, we, the above named ssigns, the entire right, title and interest in the said and foreign countries, and all rights of priority resulting e Commissioner of Patents to issue any Letters Patents successors and assigns; and we hereby agree that we will execute all papers necessary in connection with so by IBM.		
Sign	ed and sealed:				
LOC	ATION	DATE	SIGNATURE		
. K	RTP. NC	5/17/20	OCO Sandop X Soughes		
1)	•		Sandeep Kishan Singhal		
2)			Edith Helen Stern		
(3)			Barry E. WALLETENT		
			REEL: 010853 FRAME: 0110		

PATENT REEL: 010853 FRAME: 0111

ASSIGNMENT

Whereas, I/We

(3)

	(1)	Sandeep Kishan Singhal County of Wake		of Raleigh, and State of North Carolina		
	(2)	Edith Helen Stern County of Palm Beach		of Boca Raton, and State of Florida		
	(3)	Barry E. Willner County of Westchester		of Briarcliff Manor, and State of New York		
		have invented certain improve	ements in			
TITL	E	METHOD AND SYSTEM FO WIRELESS DEVICES	R INCREASING E	ASE-OF-USE AND BANDWIDTH UTILIZATION IN		
	and executed a United States Patent Application therefor on the following date(s):					
		(1)	_, 2000			
		(2) May 26, 2000	_, 2000			
		(3)	, 2000			
place interes	of busines	ss at Armonk, New York 1050	04, (hereinafter cal	ORPORATION, a corporation of New York, having a led IBM), desires to acquire the entire right, title and ates and foreign patents to be obtained therefor;		
application from the grante IBM m	r sell, ass ation and ine filing of d upon the ay apply f	ign, and transfer to IBM, its nvention therein disclosed for t said United States application, e inventions set forth in said a	successors and a the United States a and we request the optication to IBM, it id invention and we	ereof is hereby acknowledged, we, the above named, ssigns, the entire right, title and interest in the said and foreign countries, and all rights of priority resulting e Commissioner of Patents to issue any Letters Patent ts successors and assigns; and we hereby agree that e will execute all papers necessary in connection with so by IBM.		
	Signed a	nd sealed:				
	LOCATIO	<u>ON</u>	DATE	SIGNATURE		
(1)				Sandeon Visher Single		
(2)	Boca Palm	Rator Florida Beach County	May 26,20	Sandeep Kishan Singhal Little Lee Edith Helen Stern		

Attorney Docket: BOC9-1999-0086/1582P

ASSIGNMENT

Whereas, I/We of Raleigh, (1) Sandeep Kishan Singhal and State of North Carolina County of Wake of Boca Raton, (2)Edith Helen Stern and State of Florida County of Palm Beach (3) Barry E. Willner of Briarcliff Manor. and State of New York County of Westchester have invented certain improvements in METHOD AND SYSTEM FOR INCREASING EASE-OF-USE AND BANDWIDTH UTILIZATION IN TITLE **WIRELESS DEVICES**

and executed a United States Patent Application therefor on the following date(s):

(1) ______, 2000

(2) ______, 2000

(3) $\frac{5/22/2000}{2000}$

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.

Signed and sealed:				
DATE	SIGNATURE			
	Sandeep Kishan Singhal			
5/22/2000	Edith Helen Stern Barry E. Willner			

MAY 15 '00 19:51

RECORDED: 05/30/2000

PATENT PAGE. 05

REEL: 010853 FRAME: 0112