

06-19-2000

Attorney Docket: BOC9-2000-0023/1759P

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09/583318  
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To the Assistant Commissioner of Patents: Please record the attached original documents or copy there

1. Name of conveying party(ies):

Sandeep Kishan Singhal  
Edith Helen Stern  
Barry E. Willner

5-39-00

Additional name(s) of conveying party(ies) attached  Yes  No

2. Name and address of receiving party(ies):

Name: **IBM Corporation**

Street Address: **New Orchard Road**  
City: **Armonk** State: **NY** ZIP: **10504**

Additional name(s) & address(es) attached?  Yes  No

3. Nature of conveyance:

Assignment

Execution Date: May 17, 2000  
May 26, 2000  
May 22, 2000

09/583,318

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  No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: **Joseph A. Sawyer, Jr.**  
Internal  
Address: **Sawyer Law Group LLP**  
Street  
Address: **P.O. Box 51418**  
**Palo Alto, California 94303**

6. Total Number of applications and patents involved: **One**

7. Total fee (37 CFR 3.41) **\$ 40.00**  
 Enclosed  
 Authorized to be charged to deposit account

8. Deposit Account Number: 09-0452 (IBM Corp.)  
(Attach copy of this page)

9. 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.

06/19/2000 DNGUYEN 00000128 090452 09583318

01 FC:581 40.00 CH  
Date 5/30/00

Stephen G. Sullivan, Reg. No. 38,329

Total number of pages including cover sheet, attachments, and documents: 4

**PATENT**

**REEL: 010852 FRAME: 0841**

**ASSIGNMENT**

Whereas, I/We

- (1) **Sandeep Kishan Singhal** of **Raleigh,**  
County of **Wake** and State of **North Carolina**
- (2) **Edith Helen Stern** of **Boca Raton,**  
County of **Palm Beach** and State of **Florida**
- (3) **Barry E. Willner** of **Briarcliff Manor,**  
County of **Westchester** and State of **New York**

have invented certain improvements in

**TITLE            METHOD AND SYSTEM FOR INCREASING EASE-OF-USE AND BANDWIDTH UTILIZATION IN WIRELESS DEVICES**

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

- (1) \_\_\_\_\_ 5-17 \_\_\_\_\_, 2000
- (2) \_\_\_\_\_, 2000
- (3) \_\_\_\_\_, 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:

	<u>LOCATION</u>	<u>DATE</u>	<u>SIGNATURE</u>
(1)	<u>RTP, NC</u>	<u>17 MAY 2000</u>	<u><i>Sandeep K. Singhal</i></u> Sandeep Kishan Singhal
(2)	_____	_____	_____
(3)	_____	_____	_____

Barry E. Willner

**PATENT**

**REEL: 010852 FRAME: 0842**

**ASSIGNMENT**

Whereas, I/We

- (1) **Sandeep Kishan Singhal** of **Raleigh,**  
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- (2) May 26, 2000, 2000
- (3) \_\_\_\_\_, 2000

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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:

	<u>LOCATION</u>	<u>DATE</u>	<u>SIGNATURE</u>
(1)	_____	_____	_____
(2)	<u>Boca Raton, Florida</u> <u>Palm Beach County</u>	<u>May 26, 2000</u>	<u>Edith Helen Stern</u> Edith Helen Stern
(3)	_____	_____	_____

**ASSIGNMENT**

Whereas, I/We

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County of **Wake** and State of **North Carolina**
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(1) \_\_\_\_\_, 2000

(2) \_\_\_\_\_, 2000

(3) 5/22/2000, 2000

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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:

	<u>LOCATION</u>	<u>DATE</u>	<u>SIGNATURE</u>
(1)	_____	_____	_____ Sandeep Kishan Singhal
(2)	_____	_____	_____ Edith Helen Stern
(3)	<u>Hawthorne, N.Y.</u>	<u>5/22/2000</u>	<u>[Signature]</u> Barry E. Willner