



100828715

To the Assistant Commissioner of Patents: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Pradeep Kumar  
Brett Olsson  
Charles Philip Roth

09-8-98

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

International Business  
Machines Corporation  
New Orchard Road  
Armonk, New York 10504



3. Nature of conveyance:

X Assignment

Execution Dates: Dubey - 04/30/98; Olsson - 05/01/98; and Roth - 04/29/98

4. Application number(s) or patent number(s): 09 149466

If this document is being filed together with a new application, the execution dates of the application are Dubey - 4/30/98; Olsson - 05/01/98; and Roth - 04/29/98

A. Patent Application No. (s)

B. Patent No. (s)

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

Anthony V. S. England  
IBM Corporation  
Intellectual Property Law  
Internal Zip 4054  
11400 Burnet Road  
Austin, TX 78758  
(512) 838-6640

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41) \$ 40.00

X Authorized to be charged to IBM Corporation deposit account

8. IBM Corporation Deposit account number: 09-0447

DO NOT USE THIS SPACE

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.

Dan Venclarik  
Name of Person Signing

Dan Venclarik  
for FELSMAN, BRADLEY, GUNTER & DILLON, LLP

09/08/98  
Date

Total number of pages including cover sheet: 4

09/15/1998 TTON11 00000101 090447 09149466 )  
01 FC:581 40.00 CH

IBM DOCKET NO. HQ9-97-055

A S S I G N M E N T

Whereas, we,

(1) Pradeep Kumar Dubey  
County of Westchester

of White Plains,  
and State of New York,

and  
(2) Brett Olsson  
County of Williamson

of Round Rock,  
and State of Texas,

and  
(3) Charles P. Roth  
County of Williamson

of Austin,  
and State of Texas,

have invented certain improvements in

WIDE SHIFTING IN THE VECTOR PERMUTE UNIT

and executed, respectively, a United States patent application therefor on  
(1) APRIL 30, 1998, 1998; (2) \_\_\_\_\_, 1998 and  
(3) \_\_\_\_\_, 1998.

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.

(1) Signed at YORKTOWN HEIGHTS, NY on APRIL 30, 1998, 1998.

Pradeep Kumar Dubey  
Pradeep Kumar Dubey

and (2) Signed at \_\_\_\_\_ on \_\_\_\_\_, 1998.

\_\_\_\_\_  
Brett Olsson

and (3) Signed at \_\_\_\_\_ on \_\_\_\_\_, 1998.

\_\_\_\_\_  
Charles P. Roth

IBM DOCKET NO. HQ9-97-055

**A S S I G N M E N T**

Whereas, we,

(1) Pradeep Kumar Dubey of White Plains,  
County of Westchester and State of New York,

and  
(2) Brett Olsson of Round Rock,  
County of Williamson and State of Texas,

and  
(3) Charles P. Roth of Austin,  
County of Williamson and State of Texas,

have invented certain improvements in

**WIDE SHIFTING IN THE VECTOR PERMUTE UNIT**

and executed, respectively, a United States patent application therefor on  
(1) \_\_\_\_\_, 1998; (2) 01 May, 1998 and  
(3) \_\_\_\_\_, 1998.

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.

(1) Signed at \_\_\_\_\_ on \_\_\_\_\_, 1998.

\_\_\_\_\_  
Pradeep Kumar Dubey

and (2) Signed at Raleigh, NC on May 1, 1998.

Brett Olsson

\_\_\_\_\_  
Brett Olsson

and (3) Signed at \_\_\_\_\_ on \_\_\_\_\_, 1998.

\_\_\_\_\_  
Charles P. Roth

**A S S I G N M E N T**

Whereas, we,

(1) Pradeep Kumar Dubey of White Plains,  
County of Westchester and State of New York,

and  
(2) Brett Olsson of Round Rock,  
County of Williamson and State of Texas,

and  
(3) Charles P. Roth of Austin,  
County of Williamson and State of Texas,

have invented certain improvements in

**WIDE SHIFTING IN THE VECTOR PERMUTE UNIT**

and executed, respectively, a United States patent application therefor on  
(1) \_\_\_\_\_, 1998; (2) \_\_\_\_\_, 1998 and  
(3) 4/29, 1998.

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.

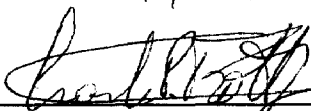
(1) Signed at \_\_\_\_\_ on \_\_\_\_\_, 1998.

\_\_\_\_\_  
Pradeep Kumar Dubey

and (2) Signed at \_\_\_\_\_ on \_\_\_\_\_, 1998.

\_\_\_\_\_  
Brett Olsson

and (3) Signed at Austin on 4/29, 1998.

  
\_\_\_\_\_  
Charles P. Roth