

01-18-2000

In place of Form PTO-1595

01-18-2000

Set No. AT9-99-745

12.16.99

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jc675 U.S. PTO
09/464841
12/16/99

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

1. Name of conveying party(ies):

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

Robert B. Mahaffey
Lawrence F. Weiss
Richard S. Schwerdtfeger
Frederik C. Kjeldsen

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

3. Nature of conveyance:

X Assignment

Execution Date: 12/15/99, 12/16/99, 12/14/99 & 12/14/99

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

09/464841

If this document is being filed together with a new application, the execution date of the application is 12/15/99, 12/16/99, 12/14/99 & 12/14/99

A. Patent Application No(s).

B. Patent No(s).

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

6. Total number of applications/patents involved: 1

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

X Authorized to be charged to deposit account

IBM Corporation
Intellectual Property Law
11400 Burnet Road -- 4054
Austin, TX 78758
(512) 823-____

8. Deposit account No. 09-0447.

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.

Robert M. Carwell
Name of Person Signing

Robert M. Carwell
Signature

12/16/99
Date

01/14/2000 DNGUYEN 00000129 090447 09464841

01 FC:581 40.00 CH

PATENT
REEL: 010484 FRAME: 0993

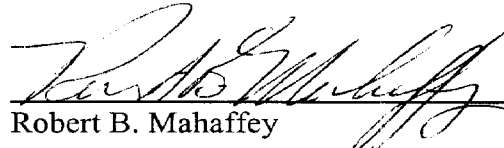
ASSIGNMENT

Whereas, we, (1) Robert B. Mahaffey of Austin, County of Travis, and State of Texas; (2) Lawrence F. Weiss of Round Rock, County of Williamson, and State of Texas; (3) Richard S. Schwerdtfeger of Round Rock, County of Williamson, and State of Texas; and (4) Frederik C. Kjeldsen of Poughkeepsie, County of Dutchess, and State of New York, have invented certain improvement in "COMPUTER SYSTEM PROVIDING HANDS FREE USER INPUT VIA OPTICAL MEANS FOR NAVIGATION OR ZOOMING" and executed a United States patent application therefore on: (1) Dec 15, 1999 (2) _____, (3) Dec 14, 1999 and (4) _____.

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION (hereinafter "IBM"), a corporation of New York, having a place of business at Armonk, New York 10504, 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.


Signed at Austin on Dec 15, 1999.


Robert B. Mahaffey

Signed at _____ on _____, 1999.

Lawrence F. Weiss

Signed at Austin on Dec 14, 1999.


Richard S. Schwerdtfeger

Signed at _____ on _____, 1999.

Frederik C. Kjeldsen

Attorney Docket Number: AT9-99-745

ASSIGNMENT

Whereas, we, (1) Robert B. Mahaffey of Austin, County of Travis, and State of Texas; (2) Lawrence F. Weiss of Round Rock, County of Williamson, and State of Texas; (3) Richard S. Schwerdtfeger of Round Rock, County of Williamson, and State of Texas; and (4) Frederik C. Kjeldsen of Poughkeepsie, County of Dutchess, and State of New York, have invented certain improvement in "COMPUTER SYSTEM PROVIDING HANDS FREE USER INPUT VIA OPTICAL MEANS FOR NAVIGATION OR ZOOMING" and executed a United States patent application therefore on: (1) _____, (2) Dec. 16, 1999, (3) _____, and (4) _____.

Whereas, INTERNATIONAL BUSINESS MACHINES COPORATION (hereinafter "IBM"), a corporation of New York, having a place of business at Armonk, New York 10504, 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.

Signed at _____ on _____, 1999.

Robert B. Mahaffey

Signed at Boca Raton, FL on Dec 16, 1999.

Lawrence F. Weiss

Signed at _____ on _____, 1999.

Richard S. Schwerdtfeger

Signed at _____ on _____, 1999.

Frederik C. Kjeldsen

Page 1 of 1

Attorney Docket Number: AT9-99-745

ASSIGNMENT

Whereas, we, (1) Robert B. Mahaffey of Austin, County of Travis, and State of Texas; (2) Lawrence F. Weiss of Round Rock, County of Williamson, and State of Texas; (3) Richard S. Schwerdtfeger of Round Rock, County of Williamson, and State of Texas; and (4) Frederik C. Kjeldsen of Poughkeepsie, County of Dutchess, and State of New York, have invented certain improvement in "COMPUTER SYSTEM PROVIDING HANDS FREE USER INPUT VIA OPTICAL MEANS FOR NAVIGATION OR ZOOMING" and executed a United States patent application therefore on: (1) _____, (2) _____, (3) _____, and (4) 12/14/99 M.

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION (hereinafter "IBM"), a corporation of New York, having a place of business at Armonk, New York 10504, 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.

Signed at _____ on _____, 1999.

Robert B. Mahaffey

Signed at _____ on _____, 1999.

Lawrence F. Weiss

Signed at _____ on _____, 1999.

Richard S. Schwerdtfeger

Signed at Hawthorne NY on 12/14/99, 1999.

Frederik C. Kjeldsen
M.