

02-04-2002

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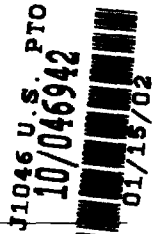
To the Assistant Commissioner of Patents: Please record the attached original documents or copy thereof.

## 1. Name of conveying party(ies):

KJLVIR SINGH BHOGAL  
NIZAMUDEEN ISHMAEL, JR.

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

100 46942

Execution Date: 10/25/01, 10/26/01

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

If this document is being filed together with a new application, the execution date of the application is 10/25/01, 10/26/01

A. Patent Application No.(s)

B. Patent No.(s)

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

Cynthia S. Byrd  
IBM Corporation  
Intellectual Property Law  
Internal Zip 4054  
11400 Burnet Road  
Austin, TX 78758  
(512) 823-5884

6. Total number of applications  
and patents involved: 17. Total fee (37 CFR 3.41) \$ 40.00

X Authorized to be charged to  
deposit account

## 8. Deposit account number:

09-0447

02/04/2002 ANNIE1 00000036 090447 10046942

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## 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.

Cynthia S. Byrd  
Name of Person Signing

Signature

Date

12/18/01Total number of pages including cover sheet: 3

## ASSIGNMENT

Whereas, we,

(1) Kulvir Singh Bhogal  
County of Tarrant  
and

of Fort Worth ,  
and State of Texas ,

(2) Nizamudeen Ishmael, Jr.  
County of Travis

of Austin ,  
and State of Texas

have invented certain improvements in

METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR GENERATING,  
FROM FIRST INFORMATION FOR A FIRST IMAGE, SECOND INFORMATION FOR A  
SECOND IMAGE CORRESPONDING TO A PORTION OF THE FIRST IMAGE

and executed a United States patent application therefore on *(Date Inventor Signed Declaration)*

(1) October 25, 2001, and (2) \_\_\_\_\_, 2001.

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 therefore;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, I,  
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 I 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 I hereby  
agree that IBM may apply for foreign Letters Patent on said invention and I 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 Oakland, CA on October 25, 2001.

  
Kulvir Singh Bhogal

(2) Signed at \_\_\_\_\_ on \_\_\_\_\_, 2001.

\_\_\_\_\_  
Nizamudeen Ishmael, Jr.

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and executed a United States patent application therefore on *(Date Inventor Signed Declaration)*

(1) \_\_\_\_\_, 2001, and (2) 10-26, 2001.

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 therefore;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, I, 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 I 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 I hereby agree that IBM may apply for foreign Letters Patent on said invention and I 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 \_\_\_\_\_, 2001.

\_\_\_\_\_  
Kulvir Singh Bhogal

(2) Signed at Austin on 10-26, 2001.

\_\_\_\_\_  
Nizamudeen Ishmael, Jr.