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DOCKET: TUC920000048US1
US Department of Commerce
Patent & Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached
original documents or copy thereof.

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

      KEITH ANTHONY BELLO   *   Name: **International Business**
      GREGORY TAD KISHI   *   **Machines Corporation**
      JONATHAN WAYNE PEAKE   *
                                          *   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:

      XX   Assignment Execution Date: 10/18/2000, 10/18/2000, 10/18/2000

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: 10/18/2000, 10/18/2000, 10/18/2000

      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: **R. M. Sullivan**   *   7.   Total fee (37 CFR 3.41).......... $ **40.00**
Address: **IBM Corporation**   *   __ Enclosed
            Intellectual Property Law *   XX Authorized to be charged to
            9000 S. Rita Road (90A/9032) *   deposit account
            Tucson, Arizona 85744   *   (Duplicate Copy Attached)
                                           *
                                           *   8.   Deposit Account Number: **09-0449**

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.

      _____   _____10/19/2000_____
      Robert M. Sullivan   Date
      Total number of pages including cover sheet, attachments, and document: /-2-/

11/22/2000 AAHMED1 00000140 090449   09693952
01 FC:581   40.00 CH

PATENT
REEL: 011255 FRAME: 0668

A S S I G N M E N T

Docket No. TUC920000048US1

Whereas, we

INVENTOR
AND CITY

(1) **KEITH ANTHONY BELLO**   of **Oro Valley,**
County of   **Pima**   and State of **Arizona,**

and (2) **GREGORY TAD KISHI**   of **Oro Valley,**
County of   **Pima**   and State of **Arizona,**

and (3) **JONATHAN WAYNE PEAKE**   of **Tucson,**
County of   **Pima**   and State of **Arizona,**

have invented certain improvements in
RECALLING LOGICAL VOLUMES TO CACHE FROM PHYSICAL MEDIA VOLUMES
FOR REDUNDANT STORAGE IN AUTOMATED DATA STORAGE LIBRARIES

DATE THAT   and executed, respectively, a United States patent application therefor on
INVENTOR
SIGNED THE   (1) ___10/18___ , 2000;   (2) ___10/18___ , 2000; and
DECLARATION
(3) ___10-18___ , 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, 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 inventions 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.

CITY   (1) at **Tucson, AZ**
DATE   on ___10/18___ , 2000,   **KEITH ANTHONY BELLO**   SIGNATURE
                                                              INVENTOR

CITY   and (2) **at Tucson, AZ**
DATE   on ___10/18___ , 2000,   **GREGORY TAD KISHI**   SIGNATURE
                                                           INVENTOR

CITY   and (3) **at Tucson, AZ**
DATE   on ___10/18___ , 2000,   **JONATHAN WAYNE PEAKE**   SIGNATURE
                                                              INVENTOR