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To the Assistant Commissioner of Patents documents or copy thereof.

1. Name of conveying party(ies):

Mark Allen Grubbs
Gerald Francis McBrearty
Grover Herbert Neuman

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

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

10/177843

3. Nature of conveyance:

Assignment

Execution Date: 6/17/02, 6/17/02, 6/17/02

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 6/17/02, 6/17/02, 6/17/02

A. Patent Application No.(s)

B. Patent No.(s)

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

Casimer K. Salys
IBM Corporation
Intellectual Property Law
11400 Burnet Road
Austin, TX 78758
(512) 823-0092

6. Total number of applications and patents involved: 1

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

Authorized to be charged to deposit account

8. Deposit account number:

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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.

Casimer K. Salys
Name of Person Signing

Casimer K. Salys
Signature

6/18/02
Date

07/08/2002 LMUELLER 00000200 090447 10177843

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Total number of pages including cover sheet: 3

PATENT
REEL: 013051 FRAME: 0342

ASSIGNMENT

Whereas, We,

- | | | |
|-----|---------------------------------|---|
| (1) | Mark Allen Grubbs | of Williamson County, Texas, USA |
| (2) | Gerald Francis McBrearty | of Travis County, Texas, USA |
| (3) | Grover Herbert Neuman | of Travis County, Texas, USA |

have invented certain improvements in

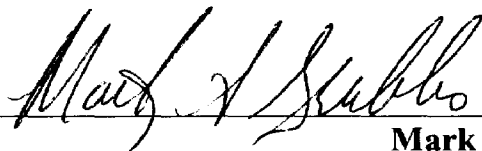
**File System Backup In A Logical Volume Management
Data Storage Environment**

and executed, respectively, a United States patent application therefor on (Date Inventor Signed Declaration) (1) 6/17/2002, 2002 and (2) 6-17-2002, 2002, and (3) 6/17/2002, 2002.

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 Austin on 6/17, 2002.



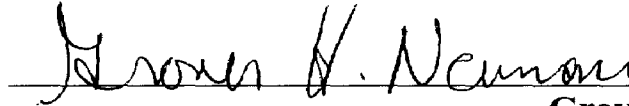
Mark Allen Grubbs

(2) Signed at Austin on Jun 17, 2002.



Gerald Francis McBrearty

(3) Signed at Austin on June 17, 2002.



Grover Herbert Neuman