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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): 4-28-03

Alex Chliwnyj * Name: International Business
David Lee Swanson * Machines Corporation

Street Address: New Orchard Road
City: Armonk State: NY ZIP: 10504

Additional name(s) of conveying party(ies) attached __Yes XX No * Additional name(s) & address(es) attached? __Yes XX No

3. Nature of conveyance:

XX Assignment Execution Date: 4/25/2003, 4/25/2003

4. Application number(s) or patent number(s): 10424373

If this document is being filed together with a new application, the execution date of the application is: 4/25/2003, 4/25/2003

A. Patent Application No.(s) * B. Patent No.(s)

Additional numbers attached? __Yes XX No

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

Name: IBM Corporation

Internal Allen K. Bates

Address: Intellectual Property Law

Street 9000 South Rita Road

Address: (90A/9032-2)

Tucson, AZ 85744

6. Total Number of applications and patents involved: One

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

Enclosed

XX Authorized to be charged to deposit account

05/06/2003 ECDOPER 00000033 090449 10424373

01 FC:8021 40.00 CH

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.

Allen K Bates Date

PATENT
REEL: 014019 FRAME: 0166

ASSIGNMENT

IBM DOCKET: TUC920010070US1

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Whereas, we

Alex Chliwnyj of Tucson County of Pima and State of Arizona
David Lee Swanson of Tucson County of Pima and State of Arizona

have invented certain improvements in

IMPROVED TAPE DRIVE SERVO OPERATION BY USE OF SERVO PATTERN WIDTH MEASUREMENTS

and executed, respectively, a United States patent application therefor on

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 patent to be obtained therefor;

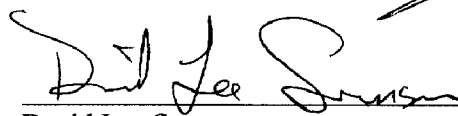
Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, I, the above named, hereby sell, assign, and transfer to IBM, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign 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.

at TUCSON, ARIZONA
on 4/25/2003



Alex Chliwnyj

at TUCSON, ARIZONA
on 4/25/2003



David Lee Swanson