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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) Barton Allen Smith Thomas Guthrie Zimmerman Name: International Business Machines Corporation 3.21.00 Street Address: New Orchard Road City: Armonk State: NY ZIP: 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: 2/10/2000 12/02/1999 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:_____ 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: 7. Total fee (37 CFR 3.41).....\$ 40.00 Name: IBM Corporation Enclosed Internal XX Authorized to be charged to Address: Intellectual Property Law deposit account Street Address: 650 Harry Road (C4TA/J2B) San Jose, CA 95120-6099 8. Deposit Account Number: 09-0441 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. Richard M. Ludwin 09532279 /18/2000 TTDN11 00000244 090441 40.00 CH 01 FC:581

> PATENT REEL: 010694 FRAME: 0812

ASSIGNMENT

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(1) Barton Allen Smith

City of Campbell

County of Santa Clara

State of California

(2) Thomas Guthrie Zimmerman
City of Cupertino
County of Santa Clara
State of California

have invented certain improvements in "Electro-Mechanical Transducer for Six Degrees of Freedom Input and Output"

and executed a Declaration and Power of Attorney for a United States patent application therefor on

(1) February 10, 2000

(2) December 2, 1999

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 inventions 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.

Execution by Inventors

(1)	Inventor Barton Allen Smith Signature Action Allen Smith	City/State SAN JOS4, CA Date 10 F&B, 2000
(2)		city/State SAN DOSE, CALIT
	Signature home Mithrie Zimmen	Date 2 DEC 1999

PATENT RECORDED: 03/21/2000 REEL: 010694 FRAME: 0813