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TO THE HONORABLE COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

Please record the attached original documents or copies thereof.

1. Name of conveying party(ies):

Satya P. Arya
Tzong-Shii Pan

4-24-02

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

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

3. Nature of conveyance:

XXXXX Assignment _____ Merger
_____ Security Agreement _____ Change of Name
_____ Other: _____

Execution Date: **April 17; and April 15, 2002 respectively.**

4. Application number(s) or application date(s):

10,131,545

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

A. Application No. _____ B. Filing Date _____
Not yet assigned **April 24, 2002**

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

Paul D. Greeley, Esq.
Ohlandt, Greeley, Ruggiero & Perle, L.L.P.
One Landmark Square, 10th Floor
Stamford, Connecticut 06901-2682 U.S.A.

6. Total No. of applications and patents involved: 1.

7. Total Fee (37 C.F.R. 3.41(h)) \$40.00/assignment.

XXX Enclosed
_____ Authorized to be charged to deposit account.

The Commissioner is hereby authorized to charge any additional fees under 37 C.F.R. 3.41 that may be required with this communication or credit any overpayment, to Deposit Account No. 01-0467. A duplicate copy of this Form is enclosed.

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.

Paul D. Greeley
Name of Person Signing

Paul D. Greeley
Signature

April 24, 2002
Date

Total number of pages including cover sheet, attachments and document: 3.

04/24/02 RECORDED & INDEXED
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JOINT ASSIGNMENT

The ASSIGNORS, Satya P. Arya Tzong-Shii Pan
4935 Cruden Bay Court 1052 Lancer Drive
San Jose, CA 95138 San Jose, CA 95129

have invented certain new and useful improvements in **PIEZO MICROACTUATOR FOR SLIDER SIDE ACTUATION**

an invention which is fully described in an application for Letters Patent of the United States filed on even date; and

The ASSIGNEE, **INTERNATIONAL BUSINESS MACHINES CORPORATION**, a New York corporation having its principal office at Armonk, New York, wishes to acquire the entire right, title and interest in and to the invention and under Letters Patent which may be obtained for this invention.

For valuable and legally sufficient considerations, receipt of which are hereby acknowledged, the Assignors sell, assign and transfer to Assignee, its successors and assigns, the entire right, title and interest for the United States in and to the above-identified invention and application, divisionals, continuations, and continuation-in-part and for the full term of any Letters Patent of the United States that may issue for the invention.

The Assignors also sell, assign and transfer to Assignee the entire right, title and interest in and to the invention and application for Letters Patent and Letters Patent therefor in all countries foreign to the United States, including all rights under the International Convention. The Assignors further authorize Assignee to apply for Letters Patent in foreign countries in the name of Assignee, and to claim the priority of the filing date of the United States Application under the provisions of the International Convention.

The Assignors further agree, for themselves and their legal representatives, they will assist Assignee in the prosecution before the United States Patent Office and the Federal Courts of this application, and other applications for Letters Patent including renewals, continuations, divisions, reissues and substitutions, that the Assignee elects to make covering the invention. The Assignors vest in Assignee like exclusive title in and to all such other applications and Letters Patent. The Assignors will

execute and deliver to Assignee any documents which may be requested by Assignee to carry out the terms of this Assignment.

The Commissioner of Patents of the United States is authorized and requested to issue Letters Patent of the United States to Assignee. The Assignors also authorize and request the equivalent authorities in foreign countries to issue the patents of foreign countries to Assignee.

Satya P. Arya
Inventor's Name

Tzong-Shii Pan
Inventor's Name

Satya P. Arya
Signature

Tzong-Shii Pan
Signature

04/17/2002, ~~2001~~
Date

4/15, ~~2001~~
Date 2002