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Patent Docket Number **20042098-US-NP (XERZ 2 01139)**

12-20-05

To the Director of the U.S. Patent and Trademark Office: Please record the attached original assignment document.

1. Name of all Party(ies) conveying an interest/Execution Date(s):

- 1. Baomin Xu
- 2. Steven A. Buhler
- 3. Stephen D. White
- 4. Scott Jong Ho Limb

Assignment Execution Date(s):

- 1. 12-16-2005
- 2. 12-16-2005
- 3. 12-16-2005
- 4. 12-16-2005

2. Name and Address of receiving Party(ies):

Palo Alto Research Center Incorporated
3333 Coyote Hill Road
Palo Alto, California 94304

Additional name(s) of conveying party(ies) attached? Yes No

Additional name(s) and address(es) attached? Yes No

3. Nature of Conveyance:

- Assignment
- Merger
- Security Agreement
- Change of Name
- Other _____

Title: MICROMACHINED FLUID EJECTORS USING PIEZOELECTRIC ACTUATION

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

If this document is being filed together with a new application, the execution date(s) of the application is/are:

- 1. 12-16-2005
- 2. 12-16-2005
- 3. 12-16-2005
- 4. 12-16-2005

A. Patent Application No.(s)

N/A

B. Patent No.(s)

N/A

Additional numbers attached? Yes No

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

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CUSTOMER NUMBER: 027885

6. Total number of applications and patents involved = **1**

7. Total Fee (37 CFR 3.41): **\$ 40.00**

- Enclosed
- Authorized to be charged to Deposit Account

8. Deposit Account Number: **24-0037**

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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.

Name of Person Signing:

Mark S. Svat, Reg. No. 34,261

Date 12/20/05

Signature

Total number of pages comprising cover sheet: 1

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Signature: Date: 12-20-05
Karen M. Forsyth

PATENT
REEL: 017397 FRAME: 0188

ASSIGNMENT

**Attorney Docket No.: 20042098-US-NP
XERZ 2 01139**

The undersigned is/are the named inventor(s) (the "Inventor(s)") on a United States patent application entitled **MICROMACHINED FLUID EJECTORS USING PIEZOELECTRIC ACTUATION** (the "Application") for inventions disclosed or claimed therein (the "Invention(s)"),

which Application:

- is being executed concurrently herewith,
- was first executed on _____
- was filed on _____ as Application Number _____
- claims the benefit of U.S. Provisional Application(s) No(s) _____ / _____ filed _____


Palo Alto Research Center Incorporated, a Delaware Corporation, on behalf of itself, its successors and assigns, and its legal representatives ("PARC"), is entitled to all rights in the Application and the Invention(s), and the full cooperation of the Inventor(s).

For valuable consideration, the receipt of which is hereby acknowledged, the Inventor(s) hereby sell(s), assign(s), and transfer(s) to PARC the entire and exclusive right, title and interest in the Application and the Invention(s), in and for the United States, its territories, and all foreign countries, including all applications, patents, design registrations and publications obtained or derived therefrom, world wide, and all priority rights under all present or future conventions and treaties, and any provisional applications for which priority is claimed in the Application; and


- (1) request the U.S. Commissioner of Patents to issue all U.S. Letters Patent granted thereon to PARC;
- (2) agree that PARC may apply for and receive all foreign Letters Patent thereon;
- (3) agree to execute all papers and take all actions necessary or desirable in connection therewith requested by PARC; and
- (4) authorize PARC to subsequently enter the Application Number on this Assignment, if not already entered above.



 Baomin Xu
 Date 12/16/2005



 Steven A. Buhler
 Date 12/16/2005



 Stephen D. White
 Date 12/16/2005



 Scott Jong Ho Kim
 Date 12/16/2005