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PATENT ONLY 102904373

Attorney Docket Number 20040053-US-NP (XERZ 2 00827)

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. Stephen D. White
2. Baomin Xu
- 3.
- 4.
- 5.
- 6.

Assignment Execution Date(s):

1. December 17, 2004
2. December 17, 2004
- 3.
- 4.
- 5.
- 6.

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 ☒ NoAdditional name(s) and address(es) attached? ☐ Yes ☒ No

3. Nature of Conveyance:

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

Title: A METHOD FOR FORMING CERAMIC THICK FILM ELEMENT ARRAYS

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. December 17, 2004
2. December 17, 2004
- 3.
- 4.
- 5.
- 6.

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Joseph D. Dreher
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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: Joseph D. Dreher

Date

December 20, 2004

Signature

Total number of pages comprising cover sheet: 1

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PATENT

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ASSIGNMENT

Attorney Docket No.: 20040053
XERZ 2 00827

The undersigned is/are the named inventor(s) (the "Inventor(s)") on a United States patent application entitled **A METHOD FOR FORMING CERAMIC THICK FILM ELEMENT ARRAYS** (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 _____.

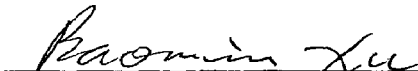
Palo Alto Research Center Incorporated, a Delaware Corporation, on behalf of itself, its successors and assigns, and its legal representatives ("PARC"), is entitled to all rights in the Application and the invention(s), and the full cooperation of the Inventor(s).

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.


Stephen D. White

Date 12/17/04


Baomin Xu

Date 12/17/2009