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To the Assistant Commissioner for Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
Shashidhar Rao Gandham, Ying Zhang, Qingfeng Huang

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

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

Name: Palo Alto Research Center Incorporated
Street Address: 3333 Coyote Hill Road
City: State: Zip: Palo Alto, CA 94304 USA

Additional name(s) & address(es) attached?

[] Yes [X] No

3. Nature of conveyance:

- Assignment [] Merger
- Security Agreement [] Change of Name
- Other

Execution Date: 01 January 2006, 20 December 2005, 18 December 2005

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: **01 January 2006, 20 December 2005, 18 December 2005**

A. Patent Application No.(s): 11/314,616

B. Patent No.(s):

Additional numbers attached? [] Yes [] No

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

Name: **A. Richard Park**
Park, Vaughan & Fleming LLP
2820 Fifth Street
Davis, CA 95616

Attorney Docket No.: PARC-20051051

6. Total number of applications and patents involved: [1]

7. Total fee (37 CFR 3.41) \$40.00
[] Enclosed
[X] 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.

A. Richard Park
Name of Person Signing

Signature

20 December 2005
Date

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

02/22/2006 DBYRNE 00000238 240037 11314616

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ASSIGNMENT

Attorney Docket No.: PARC-20051051

The undersigned is/are the named inventor(s) (the "Inventor(s)") on a United States patent application entitled METHOD AND APPARATUS FOR OPTIMIZING CONVERGECAST OPERATIONS IN A WIRELESS SENSOR NETWORK (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 it 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.

Shashidhar Rao Gandham

Shashidhar Rao Gandham

Date 01/01/2006

Ying Zhang

Date _____

Qingfeng Huang

Date _____

Date _____

Date _____

Date _____

ASSIGNMENT

Attorney Docket No.: PARC-20051051

The undersigned is/are the named inventor(s) (the "Inventor(s)") on a United States patent application entitled **METHOD AND APPARATUS FOR OPTIMIZING CONVERGECAST OPERATIONS IN A WIRELESS SENSOR NETWORK** (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 it 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.

Shashidhar Rao Gandham

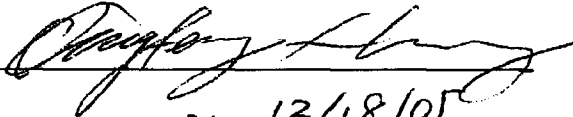
Date _____

Ying Zhang



Date 12/20/05

Qingfeng Huang



Date 12/18/05

Date _____

Date _____

Date _____