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Attorney Docket No. 020859-004810US

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Hossein Hashemi
Xiang Guan
Seyed Ali Hajimiri

2. Name and address of receiving party(ies)Name: California Institute of TechnologyInternal Address: M/C 201-85Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No**3. Nature of conveyance/Execution Date(s):**

Execution Date(s) 01/21/05, 03/20/05 and
03/28/05

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
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☐ Executive Order 9424, Confirmatory License
☐ Other _____

Street Address: 1200 E. California Blvd.City: PasadenaState: CACountry: US Zip: 91125Additional name(s) & address(es) attached? ☐ Yes ☒ No**4. Application or patent number(s):**

A. Patent Application No.(s)
10/988,199

☐ This document is being filed together with a new application.
B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No**5. Name and address to whom correspondence concerning document should be mailed:**Name: Ardeshtir Tabibi

Internal Address: _____

TOWNSEND AND TOWNSEND AND CREW LLP

Street Address: Two Embarcadero Center,
Eighth Floor

City: San FranciscoState: California Zip: 94111-3834Phone Number: (415) 576-0200Fax Number: (415) 576-0300Email Address: atabibi@townsend.com**6. Total number of applications and patents involved:** 1**7. Total fee (37 CFR 1.21(h) & 3.41) \$** 40.00

- ☐ Authorized to be charged by credit card
☒ Authorized to be charged to deposit account
☐ Enclosed
☐ None required (government interest not affecting title)

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a. Credit Card Last 4 numbers _____
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b. Deposit Account Number 20-1430Authorized User Name Townsend andTownsend and Crew LLP**9. Signature:**


Signature
Ardeshtir Tabibi

June 14, 2005

Date

Name of Person Signing

Atty. Reg. No. 48,750

Total number of pages including cover sheet, attachments, and documents:

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Attorney Docket No.: 020859-004810US
Client Reference No.: CIT-3988

ASSIGNMENT OF PATENT APPLICATION

JOINT

WHEREAS, Hossein Hashemi of 1920 Leman St., So. Pasadena, CA 91030; Xiang Guan of 294 S. Wilson Ave., Apt. #2, Pasadena, CA 91106 and Seyed Ali Hajimiri of 425 San Palo Place, Pasadena, CA 91107 hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: MONOLITHIC SILICON-BASED PHASED ARRAYS FOR COMMUNICATIONS AND RADARS
Filing Date: November 12, 2004
Application No.: 10/988,199; and

WHEREAS, California Institute of Technology, a corporation of the State of California, located at 1200 E. California Blvd., M/C 201-85, Pasadena, California 91125, hereinafter referred to as "ASSIGNEE," is desirous of acquiring an interest in the invention and application and in any U.S. Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have assigned, and by these presents do assign to Assignee all right, title and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignors further agree that they will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer, and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

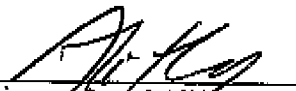
Dated: 3/28/2005


Hossein Hashemi

Dated: 03/20/2005


Xiang Guan

Dated: 04/21/2005


Seyed Ali Hajimiri

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