

06-30-2005

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To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

**1. Name of conveying party(ies)**

Patty P. Chang-Chien  
Kelly J. Tornquist  
Craig B. Geiger  
Alvin M. Kong

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

**3. Nature of conveyance/Execution Date(s):**

Execution Date(s) June 22, 2005

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Joint Research Agreement  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other \_\_\_\_\_

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

Name: NORTHROP GRUMMAN CORPORATION

Internal Address: \_\_\_\_\_

Street Address: 1840 Century Park East

City: Los Angeles

State: California

Country: \_\_\_\_\_ Zip: 90067-2199

Additional name(s) & address(es) attached? ☐ Yes ☒ No

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

☐ This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: PATENT COUNSEL

Internal Address: Northrop Grumman

Space Technology - Law Dept.

Street Address: One Space Park

Bldg. E1/2041

City: Redondo Beach

State: California Zip: 90278

Phone Number: (310) 813-1550

Fax Number: (310) 812-2687

Email Address: scot.hewitt@ngc.com

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

**7. Total fee (37 CFR 1.21(h) & 3.41) \$ \_\_\_\_\_**

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

**8. Payment Information**

a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_

b. Deposit Account Number 14-1325

Authorized User Name \_\_\_\_\_

**9. Signature:**

Signature

June 23, 2005

Date

Scot R. Hewitt, Reg. No. 35,191

Name of Person Signing

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

3

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:  
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PATENT  
REEL: 016724 FRAME: 0820

# ASSIGNMENT

For valuable consideration, the adequacy and receipt of which are hereby acknowledged, we Patty P. Chang-Chien, Kelly J. Tornquist, Craig B. Geiger, and Alvin M. Kong respectively, of Redondo Beach, California, Torrance, California, Downey, California, and Manhattan Beach, California, do hereby sell and assign to Northrop Grumman Corporation, 1840 Century Park East, Los Angeles, California 90067-2199, a Delaware corporation, its successors and assigns, the entire right, title and interest in and to the improvements in **METHOD OF FABRICATING HIGH YIELD WAFER LEVEL PACKAGES INTEGRATING MMIC AND MEMS COMPONENTS** which has been invented by us, as described in the application for United States Patent which we executed respectively, on June 22, 2005, June 22, 2005, June 22, 2005, and June 22, 2005, and any and all applications for patent and patents therefor in any and all countries, including all divisions, reissues, continuations, and extensions thereof, and the right to claim the priority date of the first filed application in the United States, and authorize and request any official whose duty it is to issue patents, to issue any patent on said improvements or resulting therefrom to said Northrop Grumman Corporation, or its successors or assigns, and agree that on request and without further consideration, but at the expense of Northrop Grumman Corporation, we will communicate to Northrop Grumman Corporation or its representatives or nominees any facts known to us respecting said improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths, and generally do everything possible to aid Northrop Grumman Corporation, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

June 22, 2005

Inventor: 

Patty P. Chang-Chien

June 22, 2005

Inventor: 

Kelly J. Tornquist

June 22, 2005

Inventor: 

Craig B. Geiger

June 22, 2005

Inventor: 

Alvin M. Kong