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To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): John P. Barnak; Gerald B. Feldewerth; Ming Fang; Kevin J. Lee; Tzuen-Luh Huang; Harry Y. Liang; Seshu V. Sattiraju; Margherita Chang; Andrew W.H. Yeoh

2. Name and address of receiving party(ies): Name: Intel Corporation Internal Address: Street Address: 2200 Mission College Boulevard

3. Nature of Conveyance: [X] Assignment [ ] Merger [ ] Security Agreement [ ] Change of Name [ ] Other Execution Date: 8-13-2004; 8-14-2004; 8-16-2004

City: Santa Clara State: CA Zip: 95052 Country: USA Additional name(s) & address(es) attached? [X] No [ ] Yes

4. Application number(s) or patent number(s): A. Patent Application No.(s) 10/812,464

B. Patent No.(s) Additional numbers attached? [X] No [ ] Yes

OPR/FINANCE 10/20 AM 7:20

5. Name and address of party to whom correspondence concerning document should be mailed: Name: Blakely, Sokoloff, Taylor & Zafman LLP Internal Address: Street Address: 12400 Wilshire Boulevard 7th Floor City: Los Angeles State: CA ZIP: 90025

6. Total number of applications and patents involved: 1 7. Total Fee (37 CFR 3.41).....\$ 40.00 [X] Enclosed [ ] Authorized to be charged to deposit account 8. Deposit Account Number: 02-2666 (Attach duplicate copy of this page if paying by deposit account)

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9. Statement and signature. To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true copy of the original document.

Gregory D. Caldwell Name of Person Signing

[Signature] Signature

August 16, 2004 Date

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

08/23/2004 REGISTRATION 00000032 10812464 01 FC:8021 40.00 DP Docket No. 42P19017

Mail documents to be recorded with required cover sheet information to: Mail Stop Assignment Recordation Services Director of the US Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450

PATENT REEL: 015694 FRAME: 0201

## **ASSIGNMENT**

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned:

**John P. Barnak; Gerald B. Feldewerth; Ming Fang; Kevin J. Lee; Tzuen-Luh Huang;  
Harry Y. Liang; Seshu V. Sattiraju; Margherita Chang; Andrew W.H. Yeoh**

hereby sell, assign, and transfer to:

### **Intel Corporation**

a Corporation of Delaware, having a principal place of business at 2200 Mission College Boulevard, Santa Clara, California 95052 USA ("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all inventions and improvements that are disclosed in the application for the United States patent filed on March 29, 2004, and assigned Application No. 10/812,464 and is entitled:

**UNDER BUMP METALLIZATION LAYER TO ENABLE USE OF HIGH TIN CONTENT SOLDER BUMPS**

and in and to said application and all design, utility, divisional, continuing, continuation-in-part, substitute, renewal, reissue, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said inventions and improvements; and in and to all original and reissued patents that have been or shall be issued in the United States and all foreign countries on said inventions and improvements; and in and to all rights of priority from the filing of said United States applications;

agree that said Assignee may apply for and receive a patent or patents for said inventions and improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all design, utility, divisional, continuing, continuation-in-part, substitute, renewal, reissue, and all other patent applications on any and all said inventions and improvements; execute all rightful oaths, assignments, power of attorney, and other papers; communicate to said Assignee, its successors, assigns, and legal representatives all facts known to the undersigned relating to said inventions and improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or legal representatives in securing and maintaining proper patent protection for said inventions and improvements and for vesting title to said inventions and improvements, and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns, and legal representatives; and

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and to convey the same as herein expressed is possessed by the undersigned.

**Each Inventor: Please Sign and Date Below:**

8/14/2004 John P. Barnak  
Date Name: **John P. Barnak**

8/14/2004 Gerald B. Feldewerth  
Date Name: **Gerald B. Feldewerth**

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Date Name: **Seshu V. Sattiraju**

8/16/04 Margherita Chang  
Date Name: **Margherita Chang**

8/16/04 Andrew W.H. Yeoh  
Date Name: **Andrew W.H. Yeoh**

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Date Name:

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Date Name:

**Assignment Document Return Address:**  
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