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U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office Attorney Docket No.: UNIV0140

| To the Honorable Director of the Patent and Trademark Office: Plea | ase record the attached original document(s) or copy thereof. | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| 1. Name of conveying party(ies): 8 1/6 108 Houfei Chen Additional name(s) of conveying party(ies) attached? □Yes ☒No | Name and address of receiving party(ies): Name: University of Washington Address: Seattle, Washington | | | | |
| | Additional name(s) and address(es) attached? ☐ Yes ☒ No | | | | |
| 3. Nature of conveyance: ☐ Assignment ☐ Merger ☐ Security Agreement Execution Date(s): July 18, 2002 | ☐ Change of Name ☐ Other | | | | |
| Application number(s) or Patent number(s): A. Patent Application Number(s): 10/159,965, filed 5/30/2002 | B. Patent Number(s): | | | | |
| Additional numbers attached? Yes No If this document is being filed together with a new application, the execution date of the application is: | | | | | |
| Name and address of party to whom correspondence concerning document should be mailed: | 6. Total number of applications and patents involved? 1 7. Total fee (37 C.F.R. § 3.41): | | | | |
| Law Offices of Ronald M. Anderson 600 - 108 th Avenue N.E., Suite 507 Bellevue, WA 98004 (425) 688-8816 | 8. The fee of \$40 is included in check No. <u>LOLFI</u> , which is enclosed. The Director is authorized to charge any fees that may be required or credit any overpayment to Deposit Account No. 01-1940. | | | | |
| DO NOT USE THIS SPACE | | | | | |
| original document. Ronald M. Anderson Name of Attorney or Agent Registration No. 28,829 | August 12, 2002 Signature August 12, 2002 Date Description, VA 22202, on August 12, 2002. Many Many Many Many Many Many Many Many | | | | |
| OMB No. 0651-0011 (exp. 4/94) | | | | | |
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PATENT REEL: 013199 FRAME: 0654

Co-Inventor's ASSIGNMENT of PATENT(S) to the UNIVERSITY OF WASHINGTON

Attorney Docket No. UNIV0140 Tech ID: 2748PR (AGO1406)

WHEREAS, I, Houfei Chen (hereinafter referred to as ASSIGNOR), having a post office address of 4738 17th Avenue N.E., Apt. 9, Seattle, Washington 98105, am a co-inventor in the INVENTION(S) referred to as "METHODS FOR MODELING INTERACTIONS BETWEEN MASSIVELY COUPLED MULTIPLE VIAS IN MULTILAYERED ELECTRONIC PACKAGING STRUCTURES," as described and claimed in a specification for which a U.S. PATENT application is in process assigned Serial No. 10/159,965, filed on May 30, 2002;

WHEREAS, the UNIVERSITY OF WASHINGTON (hereinafter referred to as ASSIGNEE), a public institution of higher education having a place of business at Seattle, Washington is desirous of acquiring the ASSIGNOR'S entire right, title and interest in and to the INVENTION(S) and in and to any letters PATENT(S) that may be granted therefor in the United States and in any and all foreign countries;

NOW, THEREFORE, for sufficient, good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby sells, assigns and transfers unto ASSIGNEE the ASSIGNOR'S entire right and title to and interest in said application and said INVENTION(S) for the United States of America and its territorial possessions and all foreign countries, and the entire right. title and interest in and to any and all letters PATENT(S) which may be granted therefor in the United States of America and its territorial possessions and an any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to claim priority rights deriving from said United States application by virtue of the International Convention, said INVENTION(S) and all applications and PATENT(S) on said INVENTIONS(S) to be held and enjoyed by ASSIGNEE as entirely as the same would have been held and enjoyed by ASSIGNOR had this sale, assignment and transfer not been made. ASSIGNOR hereby authorizes and requests the Director of the Patent and Trademark Office to issue all letters PATENT(S) on said INVENTION(S) to ASSIGNEE. ASSIGNOR hereby further agrees and promises to execute all instruments and render all such assistance as ASSIGNEE may request in order to make and prosecute any and all applications on said INVENTION(S), to enforce any and all PATENT(S) on said INVENTION(S), and to confirm in ASSIGNEE legal title to said INVENTION(S) and all applications and PATENT(S) on said INVENTION(S), all without charge to ASSIGNEE but at no expense to ASSIGNOR.

| | Houfei Chen | 180 | July 18,20 Date | 12 |
|------------------------------------------------------------------------|-------------|-----------------------|---------------------------------------|-----------------|
| STATE OF WA | _) | | | |
| County of King |) ss) | | | |
| On this day of and executed the foregoing doc | cument. | 2002, Houfei (| C hen personally appe | eared before me |
| Dana E. Bos | mu | _ (SEA | E BOS | |
| Signature of Notary Public DAVA E POS TO | 20 M | _ | DAMEN OF A | |
| Typed or Printed Name of Notary P Notary Public in and for the Star | te of | | * * * * * * * * * * * * * * * * * * * | |
| Residing at: Swartons My Commission expires: | Dec 42003 | | OFC 100 S | |
| My Commission expires. | | | WASHING WASHING | |

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RECORDED: 08/16/2002

PATENT REEL: 013199 FRAME: 0655