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OFFICE OF THE COMMISSIONER OF PATENT AND TRADEMARKS

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Form PTO-301S 3-21-92		RECORDATION FORM COVER SHEET		U.S. Department of Commerce Patent and Trademark Office	
To the Honorable Commissioner of Patent and Trademarks: Please record the attached original documents or copy thereof					
1. Name of conveying party(ies): Curtis E. Farrell Dennis D. Liu <i>3-5-02</i>		2. Name and address of receiving party(ies): Name: Texas Instruments Incorporated Internal Address: P. O. Box 655474, MS219 Dallas, Texas 75265 Street Address: 7839 Churchill Way, MS3999 Dallas, Texas 75251 Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____ Execution Date: February 20, 2002		4. Application number(s) or patent number(s): A. Patent Application No. (s) Patent Application Serial No. 10/034,788 filed 12/27/01 and entitled "BI-DIRECTIONAL WAFER TRANSFER MECHANISM AND METHOD", our Docket No. 0437-A-269. Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
5. Name and address of party to whom correspondence concerning document should be mailed: Name: W. Daniel Smayze, Jr. Texas Instruments Incorporated Internal Address: P. O. Box 655474, MS 3999 Dallas, Texas 75265 Street Address: Same City: _____ State: _____ Zip: _____		6. Total number of applications and patents involved: One 7. Total Fee (37 CFR 3.41) \$48.00 <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to be charged to deposit account 8. Deposit account number: (Attach duplicate copy of this page if paying by deposit account)			
DO NOT USE THIS SPACE					
9. Statement and signature. <i>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.</i> Charles R. Hoffman Name of Person Signing <i>Charles R. Hoffman</i> Signature February 21, 2002 Date Total number of pages including cover sheet, attachments, and document: 4					

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applications therefor based upon said improvements; (b) any and all divisions, reissues, continuations, and extensions based upon the above-identified patents and applications therefor; and (c) any and all rights of priority resulting from the filing of any of the above-identified patent applications in the United States or any foreign country.

2. ASSIGNORS hereby authorize and request any official whose duty it is to issue patents to issue any patent or any reissued patent which may be based upon the improvements described and claimed in the above-identified PATENT RIGHTS to ASSIGNEE or its successors or assigns.

3. ASSIGNORS hereby agree upon request and without further consideration, but at the expense of ASSIGNEE: (a) to communicate to ASSIGNEE, or its representatives or nominees, any facts known to ASSIGNORS relating to the above-identified PATENT RIGHTS; (b) to testify in any legal proceeding relating to the above-identified PATENT RIGHTS; (c) to sign and execute all lawful papers and to make all lawful oaths relating to the above-identified PATENT RIGHTS, including documents relating to divisional, continuing, reissue and foreign applications; and (d) to perform all acts reasonably necessary to aid ASSIGNEE, its successors, assigns and nominees in obtaining and enforcing patent protection in the United States and foreign countries covering those improvements described and claimed in the above-identified PATENT RIGHTS.

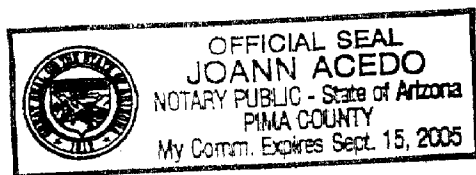
Date 2/20/2002

Curtis E. Farrell

STATE OF ARIZONA)
) ss.
County of Pima)

On this 20 day of February, 2002, before me, the undersigned, personally appeared Curtis E. Farrell, known to me to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the foregoing instrument for the purposes therein contained.

IN WITNESS WHEREOF, I have set my hand and official seal.




Notary Public

Date

2/20/2002

Dennis D. Liu
Dennis D. Liu

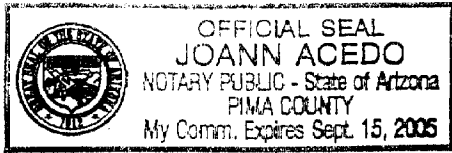
STATE OF ARIZONA)

) ss.

County of Pima)

On this 20 day of February, 2002, before me, the undersigned, personally appeared Dennis D. Liu, known to me to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the foregoing instrument for the purposes therein contained.

IN WITNESS WHEREOF, I have set my hand and official seal.



Joann Acedo
Notary Public