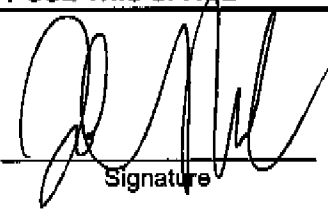


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| Form PTO-1595 (Rev. 10/02) OMB No. 0651-0027 (exp. 6/30/2005) Tab settings | RECORDATION FORM COVER SHEET PATENTS ONLY | U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office |
| To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof. | | |
| 1. Name of conveying party(ies): Randy B. Osborne Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 2. Name and address of receiving party(ies) Name: <u>Intel Corporation</u> Internal Address: _____ _____ Street Address: <u>2200 Mission College Boulevard</u> _____ City: <u>Santa Clara</u> State: <u>CA</u> Zip: <u>95052</u> 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: <u>February 7, 2004</u> | | |
| 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: _____ A. Patent Application No.(s) <u>10/676,882</u> B. Patent No.(s) _____ _____ 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: <u>Blakely, Sokoloff, Taylor & Zafman LLP</u> Internal Address: <u>Benjamin D. Burge</u> _____ Street Address: <u>12400 Wilshire Boulevard</u> <u>7th Floor</u> City: <u>Los Angeles</u> State: <u>CA</u> Zip: <u>90025-1030</u> | 6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41).....\$ <u>40.00</u> <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account | |
| | 8. Deposit account number: <u>02-2666</u> | |
| DO NOT USE THIS SPACE | | |
| 9. Signature. <u>John Patrick Ward, Reg. No. 40,216</u> Name of Person Signing |  Signature | <u>2/19/04</u> Date |
| Total number of pages including cover sheet, attachments, and documents: 3 | | |

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Docket No. 42P16963

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PATENT
REEL: 014358 FRAME: 0640

Attorney's Docket No.: 42P16963

ASSIGNMENT

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

Randy B. Osborne

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 September 30, 2003, and assigned Application No. 10/676,882 and is entitled:

METHOD AND APPARATUS FOR IMPLICIT DRAM PRECHARGE

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, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Each Inventor: Please Sign and Date Below:

February 7/2004 Randy B. Osborne
Date Name: **Randy B. Osborne**

Date Name:

Date Name:

Date Name:

Date Name:

Date Name:

Date Name:

Date Name:

Date Name:

Date Name:

Date Name: