

08-25-1999

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To the Honorable Commissioner of Patents and Trademarks, I hereby record the attached original documents or copy thereof

| | |
|---|--|
| <p>1. Name of conveying parties: <i>MRD</i></p> <p>(1) <u>Toshiharu Furukawa</u></p> <p>(2) <u>David V. Horak</u></p> <p>(3) <u>Jack A. Mandelman</u></p> <p>(4) <u>Carl J. Radens</u></p> <p><i>8-16-99</i></p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p> <p>3. Nature of Conveyance: Assignment</p> <p>Execution Dates: <u>8/3 /99, 8/3 /99, 8/9/99, 8/9/99</u></p> | <p>2. Name and address of receiving party(ies):</p> <p>Name: <u>International Business Machines Corporation</u></p> <p>Street Address: <u>New Orchard Road</u></p> <p>City: <u>Armonk</u> State: <u>New York</u> ZIP: <u>10504</u></p> <p>Additional name(s) & address(es) attached? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p> |
| <p>4. Application number(s) or patent number(s):</p> <p>Title of Application: <u>VERTICAL DRAM CELL WITH WORDLINE SELF-ALIGNED TO STORAGE TRENCH</u></p> <p>If this document is being filed together with a new application, the execution date of the application is: <u>8/3/99, 8/3/99, 7/28/99, 7/28/99</u></p> <p>A. Patent Application No(s). Docket No.: <u>HQ9-99-013</u></p> <p>B. Patent No(s) <i>09/374,687</i></p> <p>Additional number(s) attached? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p> | |
| <p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: <u>Kevin R. Casey</u></p> <p>Internal Address: <u>Ratner & Prestia</u></p> <p>Street Address: <u>Suite 301, One Westlakes, Berwyn,</u> <u>P.O. Box 980</u> <u>Valley Forge, PA 19482-0980</u> <u>Phone: (610) 407-0700</u></p> | <p>6. Total number of applications and patents involved: <u>1</u></p> <p>7. Total fee (37 CFR 3.41): \$ <u>40.00</u>. (FI-384)</p> <p><input type="checkbox"/> Enclosed</p> <p><input checked="" type="checkbox"/> Authorized to be charged to deposit account</p> <p>8. Deposit account number: <u>09-0458 (IBM Corporation)</u> (Attach duplicate copy of this page if paying by deposit account.)</p> |

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9. Statement and signature.

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.

Tiffany L. Townsend, Esq.
Name of Person Signing

Signature

Date

43,199
Registration No.Total number of pages including cover sheet, attachments, and document: 3

I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS EXPRESS MAIL IN AN ENVELOPE ADDRESSED TO: COMMISSIONER OF PATENTS AND TRADEMARKS, WASHINGTON, D.C. 20231. THE APPLICANT AND/OR ATTORNEY REQUEST THE DATE OF DEPOSIT AS THE FILING DATE.

Express Mail Certificate No.: EE468937238USDate of Deposit: 8/16/99Name of Person Making Deposit: ROBIN ANN ZENOSignature: Robin Ann Zeno

ASSIGNMENT

WHEREAS, we

- (1) **Toshiharu Furukawa** of 9 Oakwood Lane Essex Junction, VT 05452;
- (2) **David V. Horak** of 47 Briar Lane, Essex Junction, VT 05452;
- (3) **Jack A. Mandelman** of 5 Jamie Lane, Stormville, NY 12582;
- (4) **Carl J. Radens** of #7 Pinewood Road, Poughkeepsie, NY 12603.

have invented certain improvements in

VERTICAL DRAM CELL WITH WORDLINE SELF-ALIGNED TO STORAGE TRENCH

and have executed, respectively, a United States patent application therefor on:

- (1) 8/3/ , 1999;
- (2) 8/3/ , 1999;
- (3) 8/9 7/28 g.m. , 1999;
- (4) 8/9 7/28 C.J.R. , 1999.

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefor;

Now, therefore, for a valuable consideration, receipt whereof is hereby acknowledged, we, the above named hereby sell, assign, and transfer to IBM, its successors and assigns, the entire right, title and interest in the said application and the invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filing of said United States application, and we request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth in said application to IBM, its successors and assigns; and we hereby agree that IBM may apply for foreign Letters Patent on

said invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

Signed


(1) at Essex Junction, VT
on 8/03, 1999;


Toshiharu Furukawa


(2) at Essex Junction, VT
on 8/03, 1999;


David V. Horak

(3) at E. Fishkill, NY
on 8/9, 1999;


Jack A. Mandelman

(4) at E. Fishkill
on 8/9, 1999.


Carl J. Radens