

PATENT ASSIGNMENT

Electronic Version v07

Stylesheet Version v02

|                                                                                                                                                             |                                                                   |                  |       |               |             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|------------------|-------|---------------|-------------|
| SUBMISSION TYPE:                                                                                                                                            | NEW ASSIGNMENT                                                    |                  |       |               |             |
| NATURE OF CONVEYANCE:                                                                                                                                       | ASSIGNMENT OF ASSIGNOR'S INTEREST                                 |                  |       |               |             |
| CONVEYING PARTY DATA                                                                                                                                        |                                                                   |                  |       |               |             |
| Name                                                                                                                                                        |                                                                   | Execution Date   |       |               |             |
| Daisaburo Takashima                                                                                                                                         |                                                                   | 2002-08-12       |       |               |             |
| RECEIVING PARTY DATA                                                                                                                                        |                                                                   |                  |       |               |             |
| Name                                                                                                                                                        | Street Address                                                    | Internal Address | City  | State/Country | Postal Code |
| Kabushiki Kaisha<br>Toshiba                                                                                                                                 | 1-1, Shibaura 1-<br>chome, Minato-ku,<br>105-8001 Tokyo,<br>Japan |                  | Tokyo | JAPAN         | 105-8001    |
| PROPERTY NUMBERS Total: 1                                                                                                                                   |                                                                   |                  |       |               |             |
| Property Type                                                                                                                                               |                                                                   | Number           |       |               |             |
| Application Number                                                                                                                                          |                                                                   | 10161907         |       |               |             |
| CORRESPONDENCE DATA                                                                                                                                         |                                                                   |                  |       |               |             |
| FAX NUMBER: +65 67468263                                                                                                                                    |                                                                   |                  |       |               |             |
| <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>                                                                        |                                                                   |                  |       |               |             |
| When the customer number has been provided, the Office of Public Records will obtain the correspondence data from the official record on file at the USPTO. |                                                                   |                  |       |               |             |
| CUSTOMER NUMBER: 031366                                                                                                                                     |                                                                   |                  |       |               |             |
| NAME OF PERSON SIGNING:                                                                                                                                     |                                                                   | Dexter Chin      |       |               |             |
| DATE SIGNED:                                                                                                                                                |                                                                   | 2003-05-30       |       |               |             |
| Total Attachments: 2<br>source=AssignB1.tif<br>source=AssignB2.tif                                                                                          |                                                                   |                  |       |               |             |

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REEL: 013693 FRAME: 0045

## ASSIGNMENT

For good and valuable consideration, I, Daisaburo **TAKASHIMA**, residing at C/o Intellectual Property Division, Kabushiki Kaisha Toshiba, 1-1, Shibaura 1-chome, Minto-ku, Tokyo 105-8001, Japan, a citizen of Japan;

Hereby sell, assign, and transfer to **Kabushiki Kaisha Toshiba**, a corporation of **Japan**, having its principal place of business at **1-1, Shibaura 1-chome, Minato-ku, Tokyo, Japan**,

hereinafter "Assignee", its successors, assigns and legal representatives, the entire right, title and interest in and for the United States and all foreign countries, in and to any and all improvements which are disclosed in the application for United States Letters Patent,

Ser. No.: 10/161,907 Filed: June 4, 2002

and entitled:

### **VARIABLE CAPACITANCES FOR MEMORY CELLS WITHIN A CELL GROUP**

and in and to said application and all divisional, continuing substitute, renewal, reissue, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original and reissued patents which have been or shall be filed in the United States and all foreign countries on said improvements;

Agree that Assignee may apply for and receive Letters Patent for said improvements in its own name, and that, when requested, without charge to but at the expense of said Assignee, their successors, assigns, and legal representatives to carry out in good faith the intent and purpose of this agreement, the undersigned will execute all divisional, continuing substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and representatives, all facts known to the undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns, or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patents and all patents on said improvements, in said Assignee, **PATENT** its successors, assigns, and legal representatives; and

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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.

Date: 2002 / 08 / 12

*Daisaburo Takashima*

Daisaburo **TAKASHIMA**

Witness 1: *H.O. Joachim*  
H.O. Joachim  
 (print name)

Witness 2: \_\_\_\_\_

(print name)