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To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)

- (1) Masaaki HATANO (6) Takeshi FUJIMAKI  
(2) Motoya OKAZAKI (7) Kazuyuki HIGASHI  
(3) Junichi WADA (8) Kenji YOSHIDA  
(4) Takeshi NISHIOKA (9) Noriaki MATSUNAGA  
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2. Name and address of receiving party(ies)

Name: **KABUSHIKI KAISHA TOSHIBA**  
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Country: **JAPAN** Zip:

3. Nature of conveyance/Execution Date(s):

Execution Date(s) (1) November 11, 2005

- (2) November 30, 2005; (3) November 14, 2005;  
(4) November 11, 2005; (5) November 15, 2005;  
(6) November 16, 2005; (7) November 15, 2005;  
(8) November 18, 2005; (9) November 11, 2005

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Joint Research Agreement  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application or patent number(s): ☐ This document is being filed together with a new application.

A. Patent Application No.(s)

**11/265,231 (filed November 3, 2005)**

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address to whom correspondence concerning document should be mailed:

Name: **Mr. Ernest F. Chapman**

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6. Total number of applications and patents involved: **1**

7. Total fee (37 CFR 1.21(h) & 3.41) **\$40.00**

- ☐ Authorized to be charged by credit card  
☐ Authorized to be charged to deposit account  
☒ Enclosed  
☐ None required (government interest not affecting title)

8. Payment Information

- a. Credit Card Last 4 Numbers \_\_\_\_\_  
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9. Signature:

Signature  
**Richard V. Burguiian, Reg. No. 31,744**  
Name of Person Signing

01/13/2006, LMC/LLP, 00000059 11265231  
January 10, 2006

01 FC:8021 Date

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Total number of pages including cover  
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**5**

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

JOINT INVENTION  
(U.S. Rights Only)

**ASSIGNMENT**

WHEREAS, We, the below named inventors, (hereinafter referred to as assignors, have made an invention entitled:

**METHOD FOR GENERATING PATTERN, METHOD FOR MANUFACTURING SEMICONDUCTOR DEVICE, SEMICONDUCTOR DEVICE, AND COMPUTER PROGRAM PRODUCT**

for which we executed an application for United States Letters Patent concurrently herewith or on or filed an application for United States Letters Patent on November 3, 2005 (Application No. 11/265,231 ); and

WHEREAS, KABUSHIKI KAISHA TOSHIBA , a corporation

of Japan , whose post office address is 1-1, Shibaura 1-chome, Minato-ku Tokyo, Japan (hereinafter referred to as assignee), is desirous of securing the entire right, title, and interest in and to this invention, the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from assignee is hereby acknowledged, we, as assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, our entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof; and we hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, WE HEREBY further covenant and agree that we will, without further consideration, communicate with assignee, its successors and assigns, any facts known to us respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

AND, WE HEREBY authorize and request the attorneys we have empowered in the Declaration and Power of Attorney in this application, to insert here in parentheses (Application No. , filed ) the filing date and application number of said application when known.

IN TESTIMONY WHEREOF, we have hereunto set our hands.

**First Assignor**

Masaaki HATANO

Citizenship: Japan

Signature: Masaaki Hatano

Date: Nov. 11. 2005

**Second Assignor**

Motoya OKAZAKI

Citizenship: Japan

Signature: [Signature]

Date: Nov. 30 '05

**Third Assignor**

Junichi WADA

Citizenship: Japan

Signature: Jun-ichi Wada

Date: Nov. 14. 2005

**Fourth Assignor**

Takeshi NISHIOKA

Citizenship: Japan

Signature: Takeshi Nishioaka

Date: Nov. 11, 2005

**Fifth Assignor**

Hisashi KANEKO

Citizenship: Japan

Signature: Hisashi Kaneko

Date: Nov. 15. 2005.

**Sixth Assignor**

Takeshi FUJIMAKI

Citizenship: Japan

Signature: Takeshi Fujimaki

Date: Nov. 16 2005,

**Seventh Assignor**

Kazuyuki HIGASHI

Citizenship: Japan

Signature: Kazuyuki Higashi

Date: Nov. 15, 2005.

**Eighth Assignor**

Kenji YOSHIDA

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Date: Nov. 18. 2005

**Ninth Assignor**

Noriaki MATSUNAGA

Citizenship: Japan

Signature: Noriaki Matsunaga

Date: Nov. 11, 2005