

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Ryota ABURADA</td> <td>04/02/2012</td> </tr> <tr> <td>Hiromitsu MASHITA</td> <td>04/03/2012</td> </tr> <tr> <td>Taiga UNO</td> <td>04/03/2012</td> </tr> <tr> <td>Masahiro MIYAIRI</td> <td>04/03/2012</td> </tr> <tr> <td>Toshiya KOTANI</td> <td>04/03/2012</td> </tr> </tbody> </table>	Name	Execution Date	Ryota ABURADA	04/02/2012	Hiromitsu MASHITA	04/03/2012	Taiga UNO	04/03/2012	Masahiro MIYAIRI	04/03/2012	Toshiya KOTANI	04/03/2012	
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RECEIVING PARTY DATA													
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Postal Code:	105-8001												
PROPERTY NUMBERS Total: 1													
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13421688</td> </tr> </tbody> </table>	Property Type	Number	Application Number:	13421688									
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Application Number:	13421688												
CORRESPONDENCE DATA													
Fax Number:	(202)408-4400												
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<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>													
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NAME OF SUBMITTER:	B.Carson												
Total Attachments: 1 source=ASSIGNMENT#page1.tif													

OP \$40.00 13421688

U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter, "ASSIGNOR") by
(Insert Name(s) & Address(es) of ASSIGNEE(S))
Kabushiki Kaisha Toshiba

1-1, Shibaura 1-chome, Minato-ku, Tokyo 105-8001 Japan

(hereinafter, "ASSIGNEE"), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled
(Title of Invention)

PATTERN GENERATING METHOD, PATTERN FORMING METHOD, AND PATTERN GENERATING PROGRAM

relating to International Patent Application PCT/JP / and/or for which application for Letters Patent of the United States was executed on even date herewith or, if not so executed, was:

(a) executed on _____; (Insert date of execution of application, if not concurrent)

(b) filed on March 15, 2012.

Serial No. 13/421,688.

Assignee's attorney is hereby authorized to insert in (b) the specified data, when known.

and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, reissue or reexamination application based thereon, for the full term or terms for which the said Letters Patent(s) may be granted and including any extensions thereof (collectively, hereinafter, "said application(s) and Letters Patent(s)").

The ASSIGNOR agree(s), when requested by said ASSIGNEE and without charge to but at the expense of said ASSIGNEE, to do all acts which the ASSIGNEE may deem necessary, desirable or expedient, for securing, maintaining and enforcing protection for said invention, including in the preparation and prosecution of said application(s) and the issuance of said Letters Patent(s), in any interference, reissue, reexamination, or public use proceeding, and in any litigation or other legal proceeding which may arise or be declared in relation to same, such acts to include but not be limited to executing all papers, including separate assignments and declarations, taking all rightful oaths, providing sworn testimony, and obtaining and producing evidence.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

1) <u>Ryota Aburada</u> (Signature)	Ryota ABURADA (Type Name)	<u>April 02, 2012</u> (Date)
2) <u>Hiromitsu Mashita</u> (Signature)	Hiromitsu MASHITA (Type Name)	<u>April 03, 2012</u> (Date)
3) <u>Taiga Uno</u> (Signature)	Taiga UNO (Type Name)	<u>April 03, 2012</u> (Date)
4) <u>Masahiro Miyairi</u> (Signature)	Masahiro MIYAIRI (Type Name)	<u>April 03, 2012</u> (Date)
5) <u>Toshiya Kotani</u> (Signature)	Toshiya KOTANI (Type Name)	<u>April 03, 2012</u> (Date)