#### 502178051 12/28/2012

### PATENT ASSIGNMENT

### Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
Kenichiro FURUTA	12/27/2012
Satoshi ITO	12/27/2012
Haruhiko TOYAMA	12/27/2012
Hiroshi ISOZAKI	12/27/2012
Toshiaki ASANO	12/27/2012

#### **RECEIVING PARTY DATA**

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#### PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13729372

### **CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER: MJS-4813-152

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NAME OF SUBMITTER:	Michael J. Shea
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PATENT REEL: 029539 FRAME: 0345

# 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		NA N	
1-1, Shibaura 1-chome, Minato-ku, Toky	o 105-8001 Japan		
(hereinafter, "ASSIGNEE"), the receipt of which is hereby ackno ASSIGNEE the entire and exclusive right, title and interest to the (Title of Invention)	owledged, the undersigned ASSIGNOR has invention entitled	ereby sells, assigns and transfers to	
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relating to International Patent Application PCT/JP/ executed on even date herewith or, if not so executed, was:	and/or for which application for Lett	ers Patent of the United States was	
(a) executed on	(Insert date of execution of application	, if not concurrent)	
(b) filed on Serial No;	Assignee's attorney is hereby autho data, when known.	orized to insert in (b) the specified	
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) Kerichiro Furuta 2) Sitost Ito (Signature) (Signature)	Kenichiro FURUTA	Dec.27,2012	
(Signature)	(Type Name)	(Date)	
2) Sitost Ita	Satoshi ITO	Dec.27,2012	
(Signature)	(Type Name)	(Date)	
3)	Haruhiko TOYAMA		
(Signature)	(Type Name)	(Date)	
3) (Signature) 4) Frish Vogli (Signature)	Hiroshi ISOZAKI	Dec. 27, 2012 (Date)	
(Signature)	(Type Name)	(Date)	
	Toshiaki ASANO		
5)(Signature)	(Type Name)	(Date)	
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6)	(Type Name)	(Date)	
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7) (Signature)	(Type Name)	(Date)	
(Signature)	(Lype Nume)	(TVIIIO)	
8)(Signature)	(Type Name)	(Date)	

PATENT REEL: 029539 FRAME: 0346

# 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	o 105-8001 Japan	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
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relating to International Patent Application PCT/JP	and/or for which application for Lette	ers Patent of the United States was
(a) executed on	(Insert date of execution of application,	if not concurrent)
(b) filed on, Serial No;	Assignee's attorney is hereby autho data, when known.	rized to insert in (b) the specified
and to said application and all Letters Patent(s) of the United Stat substitute, reissue or reexamination application based thereon, for including any extensions thereof (collectively, hereinafter, "said a The ASSIGNOR agree(s), when requested by said ASSIGNEI which the ASSIGNEE may deem necessary, desirable or expedic including in the preparation and prosecution of said application(s reexamination, or public use proceeding, and in any litigation or o acts to include but not be limited to executing all papers, includir sworn testimony, and obtaining and producing evidence.  IN WITNESS WHEREOF, the undersigned inventor(s) has (here including the content of th	the full term or terms for which the said I application(s) and Letters Patent(s)"). E and without charge to but at the expension, for securing, maintaining and enforcing) and the issuance of said Letters Patent(sther legal proceeding which may arise or the separate assignments and declarations,	citers Patent(s) may be granted and cof said ASSIGNEE, to do all acts g protection for said invention, ), in any interference, reissue, he declared in relation to same, such
	Kenichiro FURUTA	
1) (Signature)	(Type Name)	(Date)
21	Satoshi ITO	
Nimanture 1	(Type Name)	(Date)
3) Manhiko Togama (Signature)	Haruhiko TOYAMA	Dec.27,2012
(Signature)	(Type Name)	(Date)
4)	Hiroshi ISOZAKI	
4) (Signature)	(Type Name)	(Date)
$\mathcal{G}$	Toshiaki ASANO	
(Signature)	(Type Name)	(Date)
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	(Type Name)	(Date)
7) (Signature)	(Type Name)	(Date)
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(Signature)	(Type Name)	(Date)

PATENT REEL: 029539 FRAME: 0347

## 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))

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

Kabushiki Kaisha Toshiba

(hereinafter, "ASSIGNEE"), the re ASSIGNEE the entire and exclusiv (Title of Invention)	ceipt of which is hereby acknow e right, title and interest to the	wiedged, the undersigned ASSIGNOR invention entitled	hereby sells, assigns and transfers to
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relating to International Patent App executed on even date herewith or,		and/or for which application for L	etters Patent of the United States was
(a) executed on	<u>.</u> ,	(Insert date of execution of applicati	on, if not concurrent)
(b) filed on		Assignee's attorney is hereby au data, when known.	thorized to insert in (b) the specified
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 sworm testimony, and obtaining and producing evidence.  IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).			
1) <u>(Signature</u>	)	Kenichiro FURUTA (Type Name)	(Date)
		Satoshi ITO	
2)(Signature	)	(Type Name)	(Date)
		Haruhiko TOYAMA	
3)(Signature	)	(Type Name)	(Date)
	,	Hiroshi ISOZAKI	
4)	1	(Type Name)	(Oate)
	/ ∵~>	Toshiaki ASANO	Dec.27,2012
5) Signature	***************************************		(Date)
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(Signature	)	(Type Name)	(Date)
7)			
(Signature	)	(Type Name)	(Date)
8) (Signature	)	(Type Name)	(Date)
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**RECORDED: 12/28/2012**