502953208 08/27/2014

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2999806

UBMISSION TYPE:		NEW ASSIGNMENT	NEW ASSIGNMENT		
ATURE OF CONVEYAN	ASSIGNMENT				
ONVEYING PARTY DA	ТА				
		Name	Execution Date		
ANAKO KOMATSU			08/20/2014		
IARIKO SHIMIZU			08/20/2014		
UN MORIOKA			08/20/2014		
EITA TAKAHASHI			08/20/2014		
IASAHITO NIGHIGOOR	I		08/20/2014		
ECEIVING PARTY DAT	A				
lame:		HIKI KAISHA TOSHIBA			
Street Address:		IIBAURA 1-CHOME			
	MINAT				
Sity:	TOKYO				
State/Country:	JAPAN				
PROPERTY NUMBERS					
Property Type		Number			
		Number 14454555			
Application Number:					
Application Number:					
Application Number: CORRESPONDENCE DA Fax Number: Correspondence will be	ATA sent to	14454555 (212)319-5101 o the e-mail address first; if that is unsucce			
Application Number: CORRESPONDENCE DA Fax Number: Correspondence will be using a fax number, if p	ATA sent to rovideo	14454555 (212)319-5101 o the e-mail address first; if that is unsucce I; if that is unsuccessful, it will be sent via			
Application Number: CORRESPONDENCE DA Fax Number: Correspondence will be using a fax number, if par Phone:	ATA sent to rovideo	14454555 (212)319-5101 o the e-mail address first; if that is unsucce I; if that is unsuccessful, it will be sent via 2123194900			
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Application Number: CORRESPONDENCE DA Fax Number: Correspondence will be using a fax number, if particular Phone: Email: Correspondent Name:	ATA sent to rovideo	14454555 (212)319-5101 o the e-mail address first; if that is unsucce I; if that is unsuccessful, it will be sent via 2123194900			
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Application Number: CORRESPONDENCE DA Fax Number: Correspondence will be using a fax number, if pa Phone: Email: Correspondent Name: Address Line 1: Address Line 2:	ATA sent to rovideo	14454555 (212)319-5101 b the e-mail address first; if that is unsucce i; if that is unsuccessful, it will be sent via 2123194900 rlevinsohn@hhpatent.com HOLTZ, HOLTZ, GOODMAN & CHICK PC 220 FIFTH AVENUE			
Application Number: CORRESPONDENCE DA Fax Number: Correspondence will be	ATA sent to rovideo	14454555 (212)319-5101 o the e-mail address first; if that is unsucce I; if that is unsuccessful, it will be sent via 2123194900 rlevinsohn@hhpatent.com HOLTZ, HOLTZ, GOODMAN & CHICK PC 220 FIFTH AVENUE 16TH FLOOR			
Application Number: CORRESPONDENCE DA Fax Number: Correspondence will be using a fax number, if p Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4:	ATA sent to rovideo	14454555 (212)319-5101 b the e-mail address first; if that is unsucce l; if that is unsuccessful, it will be sent via 2123194900 rlevinsohn@hhpatent.com HOLTZ, HOLTZ, GOODMAN & CHICK PC 220 FIFTH AVENUE 16TH FLOOR NEW YORK, NEW YORK 10001			
Application Number: CORRESPONDENCE DA Fax Number: Correspondence will be using a fax number, if p Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4: TTORNEY DOCKET NU	ATA sent to rovideo	14454555 (212)319-5101 b the e-mail address first; if that is unsucce l; if that is unsuccessful, it will be sent via 2123194900 rlevinsohn@hhpatent.com HOLTZ, HOLTZ, GOODMAN & CHICK PC 220 FIFTH AVENUE 16TH FLOOR NEW YORK, NEW YORK 10001 13073CIP			
Application Number: CORRESPONDENCE DA Fax Number: Correspondence will be using a fax number, if pa Phone: Email: Correspondent Name: Address Line 1: Address Line 1: Address Line 2: Address Line 4: TTORNEY DOCKET NUM	ATA sent to rovideo	14454555 (212)319-5101 o the e-mail address first; if that is unsucce I; if that is unsuccessful, it will be sent via 2123194900 rlevinsohn@hhpatent.com HOLTZ, HOLTZ, GOODMAN & CHICK PC 220 FIFTH AVENUE 16TH FLOOR NEW YORK, NEW YORK 10001 13073CIP RYAN LEVINSOHN			

Total Attachments: 5

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PATENT REEL: 033623 FRAME: 0299

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Combined Declaration and Assignment					
Title of Invention	SEMICONDUCTOR DEVICE				
As the below	w named inventor, I he	eby declare that:		NA ANALYSKA KARTER KERTER KERTER KARTER K	
This declara		tached application, or			
	[X] United States application or PCT International application number <u>14/454,555</u> filed on <u>August 7, 2014</u> .				
The above-	dentified application w	as made or authorized to) be made by	y me.	
I believe the application.	it I am the original inve	ntor or an original joint ir	iventor of a c	alimed invention in the	
In consideration of value received, I sell and assign to <u>KABUSHIKI KAISHA TOSHIBA</u> , having a business address at <u>1-1</u> , <u>Shibaura 1-chome</u> , <u>Minato-ku</u> , <u>Tokvo</u> , <u>JAPAN</u> , its successors, assigns or nominees, hereinafter referred to as "Assignee", my entire right, title and interest in and to said invention, and in and to all applications for patent and patents for said invention, in all countries of the world, including all divisions, reissues, continuations, substitutions and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of intellectual property, including rights of priority, resulting from the filing of any of said applications.					
	cant, and I request any said Assignee.	official whose duty it is	o issue pate	nts, to issue any patent on said	
I agree that on request and without further consideration, but at the expense of said Assignee, I will communicate to said Assignee or its representatives all facts known to me respecting said invention and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, relissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to aid said Assignee to obtain and enforce proper patent protection for said invention in all countries.					
I hereby acknowledge that any wiliful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.					
LEGAL NAME OF INVENTOR					
Kanal	KOMATSU	Kanako Fom	vtsu	Aug. 20, 2014	
Invento	or (printed name)	Signature		Date	

Combined Declaration and Assignment					
Title of Invention	SEMICONDUCTOR DEVICE				
As the below	As the below named inventor, I hereby declare that:				
This declara	6 3 1 1 1	tached application, or			
is unected to	[X] United	d States application or PCT internal ar <u>14/454,555</u> filed on <u>August 7, 20</u>	tional application <u>14</u> .		
The above-i	dentified application w	as made or authorized to be made	by me.		
I believe tha application.	t I am the original inve	ntor or an original joint inventor of a	a claimed invention in the		
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I agree that on request and without further consideration, but at the expense of said Assignee, I will communicate to said Assignee or its representatives all facts known to me respecting said invention and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to aid said Assignee to obtain and enforce proper patent protection for said invention in all countries.					
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.					
LEGAL NAME OF INVENTOR					
Mari	ko SHIMIZU	Mariko Shimizu	Aug. 20. 2014		
Invento	r (printed name)	Signature	, Date		

Combined Declaration and Assignment				
Title of Invention	SEMICONDUCTOR DEVICE			
As the below	As the below named inventor, I hereby declare that:			
This declara	This declaration [] The attached application, or			
	[X] United	I States application or PCT internatio ar <u>14/454.555</u> filed on <u>August 7, 2014</u>	nal application	
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I agree that on request and without further consideration, but at the expense of said Assignee, I will communicate to said Assignee or its representatives all facts known to me respecting said invention and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to ald said Assignee to obtain and enforce proper patent protection for said invention in all countries.				
18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.				
LEGAL NAME OF INVENTOR				
Jun	MORIOKA	Jun Morioka	Aug. 20, 2014	
Invento	r (printed name)	Signature	Date	

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Title of Invention	SEMICONDUCTOR DEVICE				
As the below	As the below named inventor, I hereby declare that:				
This declara	This declaration [] The attached application, or				
10 GH 0000 L	[X] United		lication or PCT intern 5 filed on <u>August 7, 2</u>		
The above-i	dentified application w	as made or a	authorized to be made	e by me.	
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18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.					
LEGAL NAME OF INVENTOR					
Keita	TAKAHASHI	Keita	Takahashi	Aug. 20. 2014	
Invento	r (printed name)		Signature	Date	

Combined Declaration and Assignment					
Title of Invention	SEMICONDUCTOR DEVICE				
As the below	As the below named inventor, I hereby declare that:				
This declara	This declaration [] The attached application, or				
	[X] United	l States application or PCT internatio er <u>14/454,555</u> filed on <u>August 7, 2014</u>			
The above-i	dentified application w	as made or authorized to be made by	/ me.		
I believe that application.	t I am the original inve	ntor or an original joint inventor of a c	laimed invention in the		
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I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.					
LEGAL NAME OF INVENTOR					
Masahi	to NISHIGOORI	Masahito Zishigoori	Aug. 20. 2014		
Invento	or (printed name)	Signature	Date		

¹⁰⁴⁸⁰⁰⁶⁰⁵⁴ **RECORDED: 08/27/2014**