505659828 09/06/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5706633

SUBMISSION TYPE:		NEW ASSIGNMENT		
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT	
CONVEYING PARTY DA	ТА	·		
		Name	Execution Date	
HARUKA SAKUMA			08/26/2019	
HIDENORI MIYAGAWA			09/04/2019	
SHOSUKE FUJII			08/26/2019	
KIWAMU SAKUMA			08/26/2019	
FUMITAKA ARAI			08/23/2019	
RECEIVING PARTY DA	ГА			
Name:		BA MEMORY CORPORATION		
Street Address:	1-1, SHIBAURA 1-CHOME			
City:	MINAT	Ο-ΚՍ, ΤΟΚΥΟ		
State/Country:	JAPAN			
Postal Code:	105-00	23		
PROPERTY NUMBERS	Total: 1			
Property Type		Number		
Application Number:		16563627		
	ΔΤΔ			
CORRESPONDENCE D				
		(703)413-2220		
Fax Number: <i>Correspondence will be</i>	e sent to	the e-mail address first; if that is unsu		
Fax Number: Correspondence will be using a fax number, if p	e sent to provideo	o the e-mail address first; if that is unsu I; if that is unsuccessful, it will be sent v		
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Fax Number: <i>Correspondence will be using a fax number, if µ</i> Phone: Email: Correspondent Name:	e sent to provideo	<i>the e-mail address first; if that is unsuctive that is unsuccessful, it will be sent</i> (703) 413-3000 adracos@oblon.com		
Fax Number: <i>Correspondence will be using a fax number, if p</i> Phone: Email: Correspondent Name: Address Line 1:	e sent to provideo	<i>the e-mail address first; if that is unsue</i> <i>t; if that is unsuccessful, it will be sent</i> (703) 413-3000 adracos@oblon.com OBLON, ET AL.		
Fax Number: <i>Correspondence will be using a fax number, if p</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 4:	e sent to provideo	<i>the e-mail address first; if that is unsue</i> <i>i; if that is unsuccessful, it will be sent</i> (703) 413-3000 adracos@oblon.com OBLON, ET AL. 1940 DUKE STREET		
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Fax Number: <i>Correspondence will be using a fax number, if p</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 4: ATTORNEY DOCKET NU	e sent to provideo	o the e-mail address first; if that is unsuccessful, it will be sent ofd; if that is unsuccessful, it will be sent of(703) 413-3000adracos@oblon.comOBLON, ET AL.1940 DUKE STREETALEXANDRIA, VIRGINIA 22314525240USALEXIA DRACOS		
Fax Number: <i>Correspondence will be</i> <i>using a fax number, if p</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 4: ATTORNEY DOCKET NUMATE OF SUBMITTER: SIGNATURE:	e sent to provideo	b the e-mail address first; if that is unsuccessful, it will be sent of the sent of	via US Mail.	

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE

Title of SEMICONDUCTOR MEMORY DEVICE
Invention
As the below named inventor, I hereby declare that:
This declaration 🔲 The attached application, or
is directed to: United States application or PCT international application number
The above-identified application was made or authorized to be made by me.
I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.
WHEREAS, <u>TOSHIBA MEMORY CORPORATION</u> (hereinafter referred to as "ASSIGNEE") having places of business at: <u>1-1. Shibaura 1-chome</u> , <u>Minato-ku</u> , <u>Tokyo</u> , <u>105-0023</u> , <u>Japan</u> , is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;
NOW, THERRFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I, by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries (including the right to claim priority under the terms of the International Convention and other relevant International Treaties and Arrangements from the aforesaid application) and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in enewals thereof.
I hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this Assignment and sale not been made.
Further, I agree that I will communicate to said ASSIGNEE or its (his) representatives any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign 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
Inventor: Haruka SAKUMA Date: Aug. 26, 2019
Inventor: <u>Haruka SAKUMA</u> Date: <u>Aug</u> , 26, 2019 Signature: <u>Haruka Sakuma</u>

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P. ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

> PATENT REEL: 050298 FRAME: 0710

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE

Title of SEMICONDUCTOR MEMORY DEVICE	
Invention	
As the below named inventor, I hereby declare that:	
This declaration []] The attached application, or	
is directed to: United States application or PCT international application number	
The above-identified application was made or authorized to be made by me.	
I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.	
WHEREAS, <u>TOSHIBA MEMORY CORPORATION</u> (hereinafter referred to as "ASSIGNEE") having places of business at: <u>1-1. Shibaura 1-chome. Minato-ku. Tokyo.</u> <u>105-0023, Japan</u> , is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;	
NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I, by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries (including the right to claim priority under the terms of the International Convention and other relevant international Treaties and Arrangements from the aforesaid application) and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.	
I hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this Assignment and sale not been made.	
Further, I agree that I will communicate to said ASSIGNEE or its (his) representatives any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign 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	
Inventor: Hidenori MIYAGAWA Date: 20/9/9/4	
Signature: Nidenovi Mayagawa	

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P. ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

> PATENT REEL: 050298 FRAME: 0711

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE

Invention As the below named inventor, I hereby declare that: This declaration [] The attached application, or is directed to: [] United States application or PCT international application number		TEN TOOD DE MEMORY DEVICE
This declaration The attached application, or is directed to: United States application or PCT international application number	Title of Invention	SEMICONDUCTOR MEMORY DEVICE
is directed to: United States application or PCT international application number	As the below named	inventor, I hereby declare that:
filed on	This declaration []	The attached application, or
I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. WHEREAS, <u>TOSHIBA MEMORY CORPORATION</u> (hereinafter referred to as "ASSIGNEB") having places of business at: <u>1-1</u> , <u>Shibaura 1-chome</u> , <u>Minato-ku</u> , <u>Tokyo</u> , <u>105-0023</u> , <u>Japan</u> , is desirous of acquiring the endire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries; NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I, by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries (including the right to the said invention in the United States and its territorial possessions and in all foreign countries and an and to any and all foreign countries and in and to any and all foreign countries and in and to any and all foreign countries and in and to any and all foreign countries and in and to any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my entire right, title and interest in and to the same, for the sole use and befor of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted entirely as the same would have been held by me had this Assignment and sale not been made. Further, I agree that I will communicate to said ASSIGNEE or its (his) representatives any facts known to me respecting said invention, and resisue applications, execute all all visional, continuation, substitute, renewal and resisue applications, execute all avful papers, execute all divisional, continuation, substitute, renewal and resisue applications, execute all levels a		filed on
 WHEREAS, <u>TOSHIBA MEMORY CORPORATION</u> (hereinafter roferred to as "ASSIGNEE") having places of business at: <u>1-1</u>, <u>Shibaura 1-chome</u>, <u>Minato-ku</u>, <u>Tokyo</u>, <u>105-0023</u>, <u>Japan</u>, is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries; NOW, THEREPORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, J, by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries (including the right to claim priority under the terms of the International Convention and other relevant International Treatics and Arangements from the aforesaid application) and the entire right, title and interest in and to any and all foreign countries (including the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this Assignment and sale not been made. Further, I agree that I will communicate to said ASSIGNEE or its (his) representatives any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawfin papers, execute all divisional all of aid Letters Patent may be granted, as fully and entirely to aid AS	The above-identified	application was made or authorized to be made by me.
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Inventor: Shosuke FUJII Date: Aug 26, 2018 Signature: Show The This Signature: Show The The Show The The Show T	LEGAL NAME OF	FINVENTOR
Signature: the he had		Date: <u>Aug 26, 2019</u>
	Signature: Su	helvin

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P. ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE

Title of SEMICONDUCTOR MEMORY DEVICE Invention		
As the below named inventor, I hereby declare that:		
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is directed to: United States application or PCT international application number		
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LEGAL NAME OF INVENTOR		
Inventor: <u>Kiwamu SAKUMA</u> Date: <u>Aug. 26, 2019</u>		
Inventor: <u>Kiwamu SAKUMA</u> Date: <u>1949, 26, 2019</u> Signature: <u>Niwamu Sakuma</u>		

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P. ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

PATENT REEL: 050298 FRAME: 0713

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Invention
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is directed to: United States application or PCT international application number
The above-identified application was made or authorized to be made by me.
I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.
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I hereby acknowledge that any willful faise statement made in this declaration is punishable under 18 U.S.C. 10 by fine or imprisonment of not more than five (5) years, or both.
LEGAL NAME OF INVENTOR
LEGAL NAME OF INVENTOR Inventor: <u>Fumitaka ARAI</u> Date: <u>Aug 23</u> , 2019
Signature: Fumitaka Arai

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P. ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

RECORDED: 09/06/2019