# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5121011

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
YOSHIAKI ASAO	08/29/2018
MISAKO MOROTA	08/29/2018
YOSHIKI KAMATA	08/29/2018
YUKIHIRO NOMURA	08/29/2018
IWAO KUNISHIMA	08/31/2018

### **RECEIVING PARTY DATA**

Name:	KABUSHIKI KAISHA TOSHIBA
Street Address:	1-1, SHIBAURA 1-CHOME, MINATO-KU
City:	TOKYO
State/Country:	JAPAN
Postal Code:	105-8001

# **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16119128

# **CORRESPONDENCE DATA**

**Fax Number:** (703)413-2220

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

**Phone:** (703) 413-3000

Email: mkocijanski@oblon.com

Correspondent Name: OBLON, ET AL.

Address Line 1: 1940 DUKE STREET

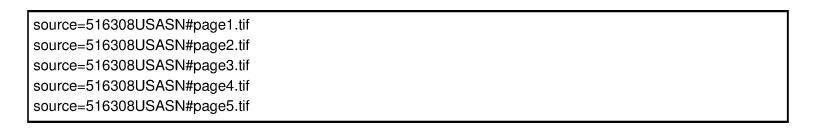
Address Line 4: ALEXANDRIA, VIRGINIA 22314

ATTORNEY DOCKET NUMBER:	516308US
NAME OF SUBMITTER:	MEGHAN KOCIJANSKI
SIGNATURE:	/Meghan Kocijanski/
DATE SIGNED:	08/31/2018
	This document serves as an Oath/Declaration (37 CFR 1.63).
	•

**Total Attachments: 5** 

PATENT REEL: 046767 FRAME: 0836

505074255



PATENT REEL: 046767 FRAME: 0837

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	NONVOLATILE MEMORY DEVICE AND METHOD OF MANUFACTURING	
Invention	THE SAME	
	The state of the s	
As the below n	amed inventor, I hereby declare that;	
This declaratio	n 🗹 The attached application, or	
is directed to:	United States application or PCT international application number	
3222	filed on(If any) .	
The above-iden	tified 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.	
business at: 1-1 right, title and i	ABUSHIKI KAISHA TOSHIBA (hereinafter referred to as "ASSIGNEE") having places of the ship and to said invention and in and to any Letters Patent that may be granted therefore in the and its territorial possessions and in any and all foreign countries;	
acknowledged, said ASSIGNE possessions and Convention and entire right, title and its territoria	REFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby and for other good and valuable consideration, I, by these presents do sell, assign and transfer unto E, the full and exclusive right to the said invention in the United States and its territorial in all foreign countries (including the right to claim priority under the terms of the International dother relevant International Treaties and Arrangements from the aforesaid application) and the e and interest in and to any and all Letters Patent which may be granted therefor in the United States all possessions and in any and all foreign countries and in and to any and all divisions, reissues, ubstitutions and renewals thereof.	
any and all fore assignee of my (his) successors	orize and request the Patent Office Officials in the United States and its territorial possessions and eign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and ame 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 ack	nowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. imprisonment of not more than five (5) years, or both.	
LEGAL NAME	OF INVENTOR	
	August 29 2018	
Inventor: Y	oshiaki Asao Date: Mynst 21, 2016	
Signature:	Joshiski Asao Date: August 29, 2018  Joshiski Asao	

PATENT REEL: 046767 FRAME: 0838 Attorney Customer No 22850 13G10011521-US-A (18S0145)

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 Invention	NONVOLATILE MEMORY DEVICE AND METHOD OF MANUFACTURING THE SAME
As the below n	amed inventor, I hereby declare that:
This declaration	
is directed to:	United States application or PCT international application number
is uncoud to,	filed on(If any).
The above-iden	atified 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.
business at: 1-1 right, title and i	ABUSHIKI KAISHA TOSHIBA (hereinafter referred to as "ASSIGNEE") having places of 1. Shibaura 1-chome, Minato-ku, Tokyo 105-8001. Japan, is desirous of acquiring the entire interest in and to said invention and in and to any Letters Patent that may be granted therefore in the and its territorial possessions and in any and all foreign countries;
acknowledged, said ASSIGNE possessions and Convention and entire right, title and its territori	REFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby and for other good and valuable consideration, I, by these presents do sell, assign and transfer unto EE, the full and exclusive right to the said invention in the United States and its territorial din all foreign countries (including the right to claim priority under the terms of the International diother relevant International Treaties and Arrangements from the aforesaid application) and the e and interest in and to any and all Letters Patent which may be granted therefor in the United States all possessions and in any and all foreign countries and in and to any and all divisions, reissues, substitutions and renewals thereof.
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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:	Misako Morota Date: Aug. 29, 2018 Mialeo Marata
Signature:	Mialeo Marata

Attorney Customer No 22850 13G10011521-US-A (18S0145)

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 Invention	NONVOLATILE MEMORY DEVICE AND METHOD OF MANUFACTURING THE SAME	
<b>,</b>	amed inventor, I hereby declare that:	
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is directed to:	United States application or PCT international application number	
	filed on(If any).	
The above-ider	ntified application was made or authorized to be made by me.	
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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.		
	nowledge that any willful false statement made in this declaration is punishable under 18 U.S.C.	
	imprisonment of not more than five (5) years, or both.	
LEGAL NAME	E OF INVENTOR	
Inventor: Y	Oshiki Kamata Date: August 19, 2018	
Signature:	Josephika Kamata	

Attorney Customer No 22850 13G10011521-US-A (18S0145)

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 Invention	NONVOLATILE MEMORY DEVICE AND METHOD OF MANUFACTURING THE SAME
	amed inventor, I hereby declare that:
This declaration	
is directed to:	United States application or PCT international application number
	filed on(If any).
The above-iden	tified application was made or authorized to be made by me.
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continuation, su and all of said I possible to aid	invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, abstitute, renewal and reissue applications, execute all necessary assignment papers to cause any letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said United States and its territorial possessions and in any and all foreign countries.
I hereby ack	nowledge 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: Y	ukihiro Nomura Date: Aug. 29, 2018 Whihiro hoems
Signature:	

PATENT REEL: 046767 FRAME: 0841

Attorne	y Customer No 22850	13G10011521-US-A	1880145

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

Tro-u	NONTROL AND DESCRIPTION OF THE PROPERTY OF THE	
Title of	NONVOLATILE MEMORY DEVICE AND METHOD OF MANUFACTURING	
Invention	THE SAME	
A - White Test Total and	1. CANA Therefore the two fields	
1	amed inventor, I hereby declare that:	
This declaratio		
is directed to:	United States application or PCT international application number	
	filed on(If any).	
The above-ider	ntified 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, KABUSHIKI KAISHA TOSHIBA (hereinafter referred to as "ASSIGNEE") having places of business at: 1-1, Shibaura 1-chome, Minato-ku, Tokyo 105-8001, Japan, 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;		
acknowledged, said ASSIGNE possessions and Convention and entire right, title and its territori	REFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby and for other good and valuable consideration, I, by these presents do sell, assign and transfer unto EE, the full and exclusive right to the said invention in the United States and its territorial I in all foreign countries (including the right to claim priority under the terms of the International I other relevant International Treaties and Arrangements from the aforesaid application) and the e and interest in and to any and all Letters Patent which may be granted therefor in the United States all possessions and in any and all foreign countries and in and to any and all divisions, reissues, substitutions and renewals thereof.	
any and all fore assignee of my (his) successors	corize and request the Patent Office Officials in the United States and its territorial possessions and eign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and ame would have been held by me had this Assignment and sale not been made.	
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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		
	Nao Kunishima Date: Aug. 31, 20/8.	
Signature:	Iwao Kunishima	

PATENT REEL: 046767 FRAME: 0842

**RECORDED: 08/31/2018**