Form PTO-1595 (Rev. 03-09)

Street Address: 8321 Old Courthouse Road

Virginia Zip: 22182-3817

(703) 761-2375 or 76

Suite 200

Email Address: ADMIN@MCGINNIPLAW.COM

Vienna

Phone Number: (703) 761-4100

City:

State:

Fax Number:

9. Signature:

## 12/23/2013

Authorized to be charged to deposit account

None required (government interest not affecting title)

Deposit Account Number 50-0481 (deficiencies only)

OMB No. 0651-0027 (exp. 03/31/2009)		
RECORDATION PATEN		
To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.		
<ol> <li>Name of conveying party(ies)</li> <li>Toru Oka</li> <li>Nariaki Tanaka</li> <li>Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No</li> </ol>	2. Name and address of receiving party(ies) Name: TOYODA GOSEI CO., LTD. Internal Address:	
3. Nature of conveyance/Execution Date(s):  Execution Date(s) November 26, 2013  Assignment	Street Address: 1 Haruhinagahata  City: Kiyosu-shi State: Aichi-ken  Country: Japan Zip: 452-8564  Additional name(s) & address(es) attached? Yes X No	
14/104,998	B. Patent No.(s)	
Additional numbers attached? Yes No  Name and address to whom correspondence  6. Total number of applications and natural		
concerning document should be mailed:	6. Total number of applications and patents involved:	
Name: Sean M. McGinn, Esq.		
Internal Address: 34,386	7. Total fee(37 CFR 1.21(h) & 3.41) \$ 40.00	
McGinn Intellectual Property Law Group, PLLC	X Authorized to be observed to do a	

☑ Enclosed

8. Payment Information

Authorized User Name

Signature 12/24/2013 KNGUYENI 00800049 14104998 Sean M. McGinn, Esq. Total forther of pages including cover 40.00 Name of Person Signing sheet, attachments, and documents:-

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

Sean M. McGinn

December 18, 2013

## Combined Declaration of Inventorship and Assignment of Application for Patent

consideration, ASSIGNOR, by these presents, hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to said invention and all Letters Patent of the United States to be obtained therefor on said Application or any continuation, division, renewal, substitute or reissue thereof for the full term or terms for which the same may be granted.  ASSIGNOR hereby authorizes and requests Sean M. McGinn of McGinn Intellectual Property Law Group, PLLC, 8321 Old Courthouse Road, Suite 200, Vienna, Virginia, U.S.A. 22182-3817 to insert here in parentheses (Application No. 14/104, 998 filed on December 12, 2013 the filing date and Application number of said Application when/if known.  ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States Patent obtained therefor on said Application or any continuation, division, renewal, substitute or reissue thereof on the full term or terms to said ASSIGNEE, of the entire right, title, and interest in and to the same, for his sole use and obtained therefor on said Application or any continuation, division, renewal, substitute or reissue thereof to behoof, and for the use and behoof of his legal representatives, to the full end of the term or terms for which said Letters Patent obtained therefor on said Application or any continuation, division, renewal, substitute or reissue thereof for may be granted, as full and entirely as the same would have been held by ASSIGNOR had this Assignment and sale not been made.  ASSIGNOR hereby covenants that no assignment sale agreement or account.	I believe that I am the original inventor or an original joint inventor, of the claimed invention in the Application entitled:	
was filed as U. S. Application No. or PCT International Application No	SEMICONDUCTOR DEVICE	
The Application was made or was authorized to be made by me. 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. I have reviewed and understand the contents of the Application, including the claims, and I am aware of the duty to disclose to the U.S. P. T. O. all information known to be material to patentability as defined in 37 CFR §1.56.  The below-named inventor (hereinafter referred to as ASSIGNOR) having invented and owning a certain and new and useful invention which is the subject of the Application, and  TOYODA GOSEI CO., LTD. (Full Name of Assignee)  [ Haruhinagahata, Kiyosu-shi, Aichi-ken, 452-8564, Japan (Address of Assignee)  [ Hereinafter referred to as ASSIGNEB), being desirous of acquiring the entire right, title, and interest in, to and under the invention which is the subject of the Application and the United States Letters Patent to be obtained therefor.  NOW THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that in consideration of the payment of ASSIGNOE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration, ASSIGNOR, by these presents, hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to said invention and all Letters Patent of the United States to be obtained therefor on said Application or any continuation, division, renewal, substitute or reissue thereof for the full term or terms for which the same may be granted.  ASSIGNOR hereby authorizes and requests Sean M. McGinn of McGinn Intellectual Property Law Group, PLLC, 8321 Old Courthouse Road, Suite 200, Vienna, Virginia, U.S.A. 22182-3817 to insert here in parentheses (Application No. 1.4 / 104 / 996 (Courthouse Road, Suite 200, Vienna, Virginia, U.S.A. 22182-3817 to insert here in parentheses (Application No. 1.1.4 / 104 / 996 (Courthouse Road, Suite 200, Vienna, Virginia, U.S.A	18 attached hereto	
TOYODA GOSEI CO., LTD. (Full Name of Assignee)  1 Haruhinagahata, Kiyosu-shi, Aichi-ken, 452-8564, Japan (Address of Assignee)  (hereinafter referred to as ASSIGNEE), being desirous of acquiring the entire right, title, and interest in, to and under the invention which is the subject of the Application and the United States Letters Patent to be obtained therefor.  NOW THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that in consideration of the payment of ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration, ASSIGNOR, by these presents, hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to said invention and all Letters Patent of the United States to be obtained therefor on said Application or any continuation, division, renewal, substitute or reissue thereof for the full term or terms for which the same may be granted.  ASSIGNOR hereby authorizes and requests Sean M. McGinn of McGinn Intellectual Property Law Group, PLLC, 8321 Old  Courthouse Road, Suite 200, Vienna, Virginia, U.S.A. 22182-3817 to insert here in parentheses (Application No. 14/104, 998)  ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States Patent obtained therefor on said Application or any continuation, division, renewal, substitute or reissue thereof or the full term or terms to said ASSIGNEE, of the entire right, title, and interest in and to the same, for his sole use and behoof, and for the use and behoof of his legal representatives, to the full end of the term or terms for which said Letters Patent obtained therefor on said Application or any continuation, division, renewal, substitute or reissue thereof for may be granted, as full and entirely as the same would have been held by ASSIGNOR had this Assignment and sale not been made.	nade in this Declaration is punishable under 18 U.S.C. §1001 by fine or imprisonment of not more than five (5) years are had	
I Haruhinagahata, Kiyosu-shi, Aichi-ken, 452-8564, Japan (Address of Assignee)  (hereinafter referred to as ASSIGNEE), being desirous of acquiring the entire right, title, and interest in, to and under the invention which is the subject of the Application and the United States Letters Patent to be obtained therefor.  NOW THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that in consideration of the payment of ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration, ASSIGNOR, by these presents, hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to said invention and all Letters Patent of the United States to be obtained therefor on said Application or any continuation, division, renewal, substitute or reissue thereof for the full term or terms for which the same may be granted.  ASSIGNOR hereby authorizes and requests Sean M. McGinn of McGinn Intellectual Property Law Group, PLLC, 8321 Old  Courthouse Road, Suite 200, Vienna, Virginia, U.S.A. 22182-3817 to insert here in parentheses (Application No. 14/104, 998  ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States Patent obtained therefor on said Application or any continuation, division, renewal, substitute or reissue thereof or the full term or terms to said ASSIGNEE, of the entire right, title, and interest in and to the same, for his sole use and obtained therefor on said Application or any continuation, division, renewal, substitute or reissue thereof for may be granted, as unlined therefor on said Application or any continuation, division, renewal, substitute or reissue thereof for may be granted, as unlined therefor on said Application or any continuation, division, renewal, substitute or reissue thereof for may be granted, as unlined therefor on said Application or any continuation, division, renewal, substitute or reissue thereof for may		
(Address of Assignee)  (hereinafter referred to as ASSIGNEE), being desirous of acquiring the entire right, title, and interest in, to and under the invention which is the subject of the Application and the United States Letters Patent to be obtained therefor.  NOW THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that in consideration of the payment of ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration, ASSIGNOR, by these presents, hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to said invention and all Letters Patent of the United States to be obtained therefor on said Application or any continuation, division, renewal, substitute or reissue thereof for the full term or terms for which the same may be granted.  ASSIGNOR hereby authorizes and requests Sean M. McGinn of McGinn Intellectual Property Law Group, PLLC, 8321 Old Courthouse Road, Suite 200, Vienna, Virginia, U.S.A. 22182-3817 to insert here in parentheses (Application No. 14/104, 998 and presented the filing date and Application number of said Application when/if known.  ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States Patent obtained therefor on said Application or any continuation, division, renewal, substitute or reissue thereof or the full term or terms to said ASSIGNEE, of the entire right, title, and interest in and to the same, for his sole use and behoof, and for the use and behoof of his legal representatives, to the full end of the term or terms for which said Letters Patent behavior, and for the use and behoof of his legal representatives, to the full end of the term or terms for which said Letters Patent behavior, and for the use and behoof of his legal representatives, to the full end of the term or terms for which said Letters Patent behavior and therefor on said Application or any continuation, division, ren	TOYODA GOSEI CO., LTD. (Full Name of Assignee)	
(hereinafter referred to as ASSIGNEE), being desirous of acquiring the entire right, title, and interest in, to and under the invention which is the subject of the Application and the United States Letters Patent to be obtained therefor.  NOW THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that in consideration of the payment of ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration, ASSIGNOR, by these presents, hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to said invention and all Letters Patent of the United States to be obtained therefor on said Application or any continuation, division, renewal, substitute or reissue thereof for the full term or terms for which the same may be granted.  ASSIGNOR hereby authorizes and requests Sean M. McGinn of McGinn Intellectual Property Law Group, PLLC, 8321 Old Courthouse Road, Suite 200, Vienna, Virginia, U.S.A. 22182-3817 to insert here in parentheses (Application No. 14/104, 998 filed on December 12, 2013 the filing date and Application number of said Application when/if known.  ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States Patent obtained therefor on said Application or any continuation, division, renewal, substitute or reissue thereof perhoof, and for the use and behoof of his legal representatives, to the full end of the term or terms for which said Letters Patent obtained therefor on said Application or any continuation, division, renewal, substitute or reissue thereof for may be granted, as all and entirely as the same would have been held by ASSIGNOR had this Assignment and sale not been made.	1 Haruhinagahata, Kiyosu-shi, Aichi-ken, 452-8564, Japan	
consideration, ASSIGNOR, by these presents, hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, continuation, division, renewal, substitute or reissue thereof for the full term or terms for which the same may be granted.  ASSIGNOR hereby authorizes and requests Sean M. McGinn of McGinn Intellectual Property Law Group, PLLC, 8321 Old Courthouse Road, Suite 200, Vienna, Virginia, U.S.A. 20182, 2018.	ereinafter referred to as ASSIGNEE), being desirous of acquiring the entire right, title, and interest in, to and under the vention which is the subject of the Application and the United States Letters Patent to be obtained therefor.	
ASSIGNOR hereby authorizes and requests Sean M. McGinn of McGinn Intellectual Property Law Group, PLLC, 8321 Old Courthouse Road, Suite 200, Vienna, Virginia, U.S.A. 22182-3817 to insert here in parentheses (Application No. 14/104, 998 ——————————————————————————————————	insideration, ASSIGNOR, by these presents, hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right.	
ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States Patent obtained therefor on said Application or any continuation, division, renewal, substitute or reissue thereof or the full term or terms to said ASSIGNEE, of the entire right, title, and interest in and to the same, for his sole use and behoof, and for the use and behoof of his legal representatives, to the full end of the term or terms for which said Letters Patent obtained therefor on said Application or any continuation, division, renewal, substitute or reissue thereof for may be granted, as full and entirely as the same would have been held by ASSIGNOR had this Assignment and sale not been made.	SSIGNOR hereby authorizes and requests Sean M. McGinn of McGinn Intellectual Property Law Group, PLLC, 8321 Old	
ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Assignment and sale;	SIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent of the ited States Patent obtained therefor on said Application or any continuation, division, renewal, substitute or reissue thereof the full term or terms to said ASSIGNEE, of the entire right, title, and interest in and to the same, for his sole use and noof, and for the use and behoof of his legal representatives, to the full end of the term or terms for which said Letters Patent ained therefor on said Application or any continuation, division, renewal, substitute or reissue thereof for may be granted, as and entirely as the same would have been held by ASSIGNOR had this Assignment and sale not been made.	
	SIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into che would conflict with this Assignment and sale;	

Combined Declaration of Inventorship and Assignment of Application for Patent (Page 1 of 2)

PATENT REEL: 032080 FRAME: 0306 ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent as may be known and accessible to ASSIGNOR and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain and enforce said application, said invention and said Letters Patent which may be necessary or desirable to carry out the purposes hereof.

Legal Name of Inventor Toru Oka	,
Inventor's Signature John Oka	Date November 26, 2013
Legal Name of Additional Inventor, If Any Nariaki Taraka	
Inventor's Signature Namaki Jamaka	Date November 26.20 3
Legal Name of Additional Inventor, If Any	
Inventor's Signature	Date
Legal Name of Additional Inventor, If Any	
Inventor's Signature	Date
Legal Name of Additional Inventor, If Any	
Inventor's Signature	Date
Legal Name of Additional Inventor, If Any	
Inventor's Signature	Date_

Combined Declaration of Inventorship and Assignment of Application for Patent (Page 2 of 2)

PATENT REEL: 032080 FRAME: 0307

**RECORDED: 12/18/2013**