

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT4285058

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
ANTHONY G.P. MARINI	01/31/2017
JAMES L. LARRAURI	01/18/2017
SIMON P. WAINWRIGHT	01/31/2017
MAX ZAFRANI	02/03/2017
RECEIVING PARTY DATA	
Name:	FREEBIRD SEMICONDUCTOR CORPORATION
Street Address:	17 PARKRIDGE ROAD, UNIT E
City:	HAVERHILL
State/Country:	MASSACHUSETTS
Postal Code:	01835
PROPERTY NUMBERS Total: 2	
Property Type	Number
Application Number:	15374756
PCT Number:	US2016065952
CORRESPONDENCE DATA	
Fax Number:	(617)856-8201
<i>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.</i>	
Phone:	6178568200
Email:	IP@BROWNRUDNICK.COM
Correspondent Name:	BROWN RUDNICK LLP
Address Line 1:	ONE FINANCIAL CENTER
Address Line 4:	BOSTON, MASSACHUSETTS 02111
ATTORNEY DOCKET NUMBER:	FREE-002/01US 32177/9
NAME OF SUBMITTER:	ROBERT J. TOSTI
SIGNATURE:	/ROBERT J. TOSTI/
DATE SIGNED:	02/22/2017
Total Attachments: 7	
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ASSIGNMENT

WHEREAS we, the below named inventor(s),

Anthony G.P. Marini, James L. Larrauri, Simon P Wainwright, and Max Zafrani

hereinafter referred to as "Assignor(s)" have made an invention(s), hereinafter referred to as the "Invention(s)," set forth in an application for patent, entitled **A MULTI-FUNCTION POWER CONTROL CIRCUIT USING ENHANCEMENT MODE GALLIUM NITRIDE (GAN) HIGH ELECTRON MOBILITY TRANSISTORS (HEMTS)**, which is a:

- (1) United States non-provisional application
 - (a) to be filed herewith; or
 - (b) bearing Application No. **15/374,756**, and filed on **December 9, 2016**; and

- (2) international (PCT) application
 - (a) to be filed herewith; or
 - (b) bearing Application No. **PCT/US2016/065952**, and filed on **December 9, 2016**.

WHEREAS, FREEBIRD SEMICONDUCTOR CORPORATION, whose post office address is 17 Parkridge Road, Unit E, Haverhill, MA 01835, North Andover, MA 01845 (the "Assignee"), is desirous of acquiring the entire right, title, and interest in: the Inventions; the applications for patent identified above; the right to file applications for patent of any country on the Inventions; any application for patent of any country claiming priority to these applications; any provisional or other right to recover damages, including royalties, for prior infringements of these patents applications; and any patent of any country that may be granted therefor or thereon.

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, and to the extent that the Assignor has not done so already via a prior agreement with the Assignee, or if the Assignor has already done so via a prior agreement with the Assignee then in confirmation of any obligation to do so in said prior agreement, the Assignor has sold, assigned, transferred, and set over, and by these presents does sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns, the Assignor's entire right, title, and interest in:

- (a) the Invention(s);
- (b) the application for patent identified above;
- (c) the right to file applications for patent of any country on the Invention(s), including all rights under the Paris Convention for the Protection of Industrial Property and under the Patent Cooperation Treaty;

(d) any application(s) for patent of any country claiming the Invention(s);

(e) any application(s) for patent of any country claiming priority to the application for patent identified above or any application(s) for patent claiming the Invention(s), including any division(s), continuation(s), and continuation(s)-in-part; and

(f) any provisional or other right to recover damages, including royalties, for prior infringements of any application for patent identified in the preceding paragraphs (b)-(e); and

(g) any patent(s) of any country that may be granted for or on any application for patent identified in the preceding paragraphs (b) -- (e), including any reissue(s) and extension(s) of said patent(s).

The above-granted rights, titles, and interests are to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, as fully and entirely as the same would have been held and enjoyed by the Assignor had this sale and assignment not been made.

The Assignor hereby represents to the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, or if applicable, at such time said prior agreement was executed, the Assignor is a lawful owner of an undivided interest in the entire right, title, and interest in and to the Invention(s), that the Invention(s) are unencumbered, except, if applicable, by obligation to assign in accordance with said prior agreement, and that the Assignor has good and full right and lawful authority to sell and convey the same in the manner set forth herein.

The Assignor hereby covenants and agrees to and with the Assignee, its successors, legal representatives, and assigns, that the Assignor will sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done in connection with any and all proceedings for the procurement, maintenance, enforcement and defense of the Invention(s), said applications, and said patents, including interference proceedings, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns.

The Assignor hereby authorizes and requests the attorneys of BROWN RUDNICK LLP to insert in the spaces provided above the filing date, the application number, and the attorney docket number of the application identified in paragraph (1) or (2) when known.

The Assignor hereby requests the patent authority to issue/grant said patents of their respective country to the Assignee for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

Date: 1/31/2017

By: *Anthony G.P. Marini*
Anthony G.P. Marini

State of MASSACHUSETTS)
County of WORCESTER) ss.

On JANUARY 31, 2017, before me, DINORAH CARABALLO, Notary Public, personally appeared Anthony G.P. Marini, personally known to me or proved to me on the basis of satisfactory evidence, to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

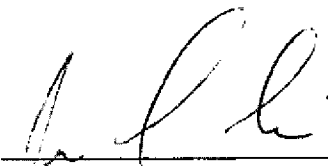
Dinorah Caraballo
Signature of Notary Public

Place Notary Seal Above

My Commission Expires: APRIL 6, 2023



Date: January 18, 2017


By: 
James L. Larrauri

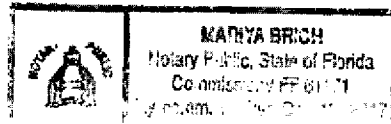
State of Florida
County of Sarasota)

ss.

On January 18, 2017 before me, Marilyn Brich, Notary Public, personally appeared James L. Larrauri, personally known to me or proved to me on the basis of satisfactory evidence, to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.


Signature of Notary Public



Place Notary Seal Above

My Commission Expires: 01/13, 2017

Date: 1/31/17

By: 
Simon P. Wainwright


State of MA)

County of ESSEX)

ss.

On JANUARY 31, 2017, before me, MAUREEN TERRAZZANO, Notary Public, personally appeared Simon P. Wainwright, personally known to me or proved to me on the basis of satisfactory evidence, to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

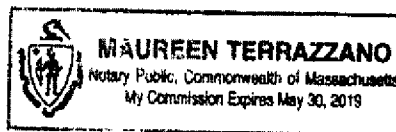
WITNESS my hand and official seal.



Signature of Notary Public

Place Notary Seal Above

My Commission Expires: May 30, 2019



Date: 2/3/17

By: *Max Zafrani*
Max Zafrani

State of Massachusetts)
County of Essex) ss.

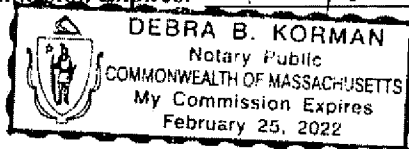
On February 3, 2017, before me, *Debra Korman*, Notary Public, personally appeared Max Zafrani, personally known to me or proved to me on the basis of satisfactory evidence, to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Debra Korman
Signature of Notary Public

Place Notary Seal Above

My Commission Expires: 2/25/22



Date: January 18, 2017

By: [Signature]

Print Name: James L. Linnquist

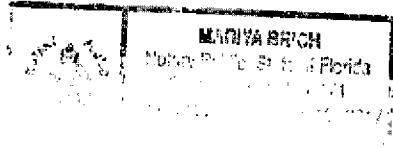
Title at Assignee: Chief Strategy Officer

State of Florida)
County of Sarasota) ss.

On January 18, 2017, before me, Marilyn Brich, Notary Public, personally appeared ^{James} ~~Linnquist~~, personally known to me or proved to me on the basis of satisfactory evidence, to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

[Signature]
Signature of Notary Public



Place Notary Seal Above

My Commission Expires: Oct 13, 2017