502533706 10/16/2013

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT2579040

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CYRILLE LE ROYER	09/10/2013
SORIN CRISTOLOVEANU	07/07/2013
JING WAN	07/09/2013
ALEXANDER ZASLAVSKY	07/07/2013

RECEIVING PARTY DATA

Name:	COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES
Street Address:	25 RUE LEBLANC, BATIMENT "LE PONANT D"
City:	PARIS
State/Country:	FRANCE
Postal Code:	75015

Name:	CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE				
Street Address:	3, RUE MICHEL-ANGE				
City:	PARIS CEDEX 16				
State/Country:	FRANCE				
Postal Code:	75794				

PROPERTY NUMBERS Total: 1

Property Type	Number		
Application Number:	13936502		

CORRESPONDENCE DATA

 Fax Number:
 (703)413-2220

 Phone:
 (703) 413-3000

 Email:
 mkassaye@oblon.com

Correspondence will be sent via US Mail when the email attempt is unsuccessful.

Correspondent Name: OBLON, SPIVAK, ET AL.
Address Line 1: 1940 DUKE STREET

PATENT

REEL: 031412 FRAME: 0954

\$40.00 13936502

502533706

Address Line 4: ALEXANDRIA, VIRGINIA 22314				
ATTORNEY DOCKET NUMBER: 418682US41X				
NAME OF SUBMITTER: MESFIN KASSAYE				
Signature:	/Mesfin Kassaye/			
Date:	10/16/2013			
	This document serves as an Oath/Declaration (37 CFR 1.63).			
Total Attachments: 4 source=418682US41X ASSIGNMENT#page1.tif source=418682US41X ASSIGNMENT#page2.tif source=418682US41X ASSIGNMENT#page3.tif source=418682US41X ASSIGNMENT#page4.tif				

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

Title of Invention	TUNNEL TRANSISTOR WITH HIGH (CURRENT BY BIPOLAR AMPLIFICATION
1	d inventor, I hereby declare that:	
	The attached application, or	
is directed to:	United States application or PCT internation filed on .July 8, 2013	nal application number 13/936,502
The above-identifie	ed application was made or authorized to be	made by me.
I believe that I am t	he original inventor or an original joint inve	ntor of a claimed invention in the application.
WHEREAS, Com RECHERCHE SCI		rgies alternatives, CENTRE NATIONAL DE LA
75015 PARIS FRA entire right, title an	NCE - 3, Rue Michel-Ange 75794 PARIS	usiness at: 25 Rue Leblanc Bâtiment "Le Ponant D" CEDEX 16 FRANCE is desirous of acquiring the d to any Letters Patent that may be granted therefore d all foreign countries;
acknowledged, and said ASSIGNEE, the and in all foreign contour relevant Inter- interest in and to a	for other good and valuable consideration, ne full and exclusive right to the said inventi- ountries (including the right to claim priority national Treaties and Arrangements from the ny and all Letters Patent which may be gra any and all foreign countries and in and	B DOLLARS (\$5.00), the receipt whereof is hereby I, by these presents do sell, assign and transfer unto on in the United States and its territorial possessions under the terms of the International Convention and e aforesaid application) and the entire right, title and anted therefor in the United States and its territorial I to any and all divisions, reissues, continuations,
any and all foreign assignee of my enti (his) successors and	countries to issue any and all of said Letter right, title and interest in and to the same	the United States and its territorial possessions and ers Patent, when granted, to said ASSIGNEE as the for the sole use and behoof of said ASSIGNEE, its ich said Letters Patent may be granted, as fully and nument and sale not been made.
respecting said inv continuation, substi all of said Letters possible to aid said	vention, and testify in any legal proceedi tute, renewal and reissue applications, exec Patent to be issued to said ASSIGNEE, m	E or its (his) representatives any facts known to me ng, sign all lawful papers, execute all divisional, ate all necessary assignment papers to cause any and ake all rightful oaths, and, generally do everything ns, to obtain and enforce proper protection for said in any and all foreign countries.
	viedge that any willful false statement mac orisonment of not more than five (5) years, o	e in this declaration is punishable under 18 U.S.C. r both.
LEGAL NAME OF	FINVENTOR	
Inventor: <u>LE ROY</u>	ER Cyrille	Date:
Signature:		September 10, 2013

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

Title of

Invention

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

TUNNEL TRANSISTOR WITH HIGH CURRENT BY BIPOLAR AMPLIFICATION

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 13/936, 502 filed on July 8, 2013
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, Commissariat à l'énergie atomique et aux énergies alternatives. CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE
(hereinafter referred to as "ASSIGNEE") having a place of business at: 25 Rue Leblanc Bâtiment "Le Ponant D" 75015 PARIS FRANCE - 3, Rue Michel-Ange 75794 PARIS CEDEX 16 FRANCE 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: CRISTOLOVEANU Sorin O7-07-2013 Date: Signature:
Signature:

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

Title of

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

Invention	TUNNEL TRANSISTOR WITH HIGH CURRENT BY BIPOLAR			
	AMPLIFICATION			
	d inventor, I hereby declare that:			
This declaration [The attached application, or			
is directed to: 🟋	United States application or PCT international application number 13/936,502 filed on July 8, 2013			
The above-identifie	d application was made or authorized to be made by me.			
I believe that I am t	he original inventor or an original joint inventor of a claimed invention in the application.			
WHEREAS, Com RECHERCHE SCI	missariat à l'énergie atomique et aux énergies alternatives, CENTRE NATIONAL DE LA ENTIPIQUE			
75015 PARIS FRA	ed to as "ASSIGNEE") having a place of business at: 25 Rue Leblanc Bâtiment "Le Ponant D" NNCE - 3, Rue Michel-Ange 75794 PARIS CEDEX 16 FRANCE is desirous of acquiring the id interest in and to said invention and in and to any Letters Patent that may be granted therefore 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.				
any and all foreign assignee of my ent (his) successors an	ize and request the Patent Office Officials in the United States and its territorial possessions and a countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the ire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its d assigns, to the full end of the term for which said Letters Patent may be granted, as fully and e 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.				
	wledge that any willful false statement made in this declaration is punishable under 18 U.S.C. prisonment of not more than five (5) years, or both.			
LEGAL NAME O	F INVENTOR			
Inventor: WAN Jir	11-11/2017			
Signature:	Jing wan			

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, L.L.P.
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DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR MULTIPLE ASSIGNEES

	· · · · · · · · · · · · · · · · · · ·							
Title of Invention		TRANSISTOR	WITH	HIGH	CURREN	T BY	BIPOLA	R
	LAMPLIFI	CATION						
As the below name	d inventor, I i	ereby declare that	it:					
	This declaration [] The attached application, or							
is directed to:	United State filed on .Ju	s application or Poly 8, 201	CT interna 3	tional ap	plication n	umber 1	3/936,	502
The above-identifie	d application	was made or auth	orized to b	e made	by me.			
I believe that I am	the original in	ventor or an origi	nal joint in	ventor o	f a claimed	l inventio	n in the a	plication.
WHEREAS, Comr RECHERCHE SCI		energie atomique	et au <u>x é</u>	nergies	altemative	s. CENT	RE NAT	IONAL DE LA
(hereinafter referre 75015 PARIS FRA entire right, title ar in the United State	ANCE - 3, Ru d interest in a	ne Michel-Ange ' and to said invent	75794 PAI ion and in	RIS CEI and to a	DEX 16 FE ny Letters	Patent the	s desirous	of acquiring the
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 author any and all foreign assignee of my ent (his) successors an entirely as the sam	countries to ire right, title d assigns, to	issue any and all and interest in ar the full end of th	l of said L id to the sa e term for	etters Pa me, for t which s	itent, when the sole use aid Letters	granted, e and beh Patent m	to said A oof of sai ay be gra	d ASSIGNEE, its
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: ZASLA	/SKY Alexan	<u>der</u>						Date:
	7 0		_				7	Tully 7,2013

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ATTORNEYS AT LAW
1940 DUKE STREET
ALEXANDRIA, VIRGINIA 22314

PATENT REEL: 031412 FRAME: 0959

RECORDED: 10/16/2013

Signature: