506409031 12/17/2020 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6455787

SUBMISSION TYPE:			NEW ASSIGNMENT			
NATURE OF CONVEYANCE:			ASSIGNMENT			
CONVEYING PARTY DA	ATA					
			Name		Execution D	ate
YOANN JESTIN					04/26/2019	
LUCA RAZZARI					04/24/2019	
ROBERTO MORANDOT	TI				05/03/2019	
RICCARDO PICCOLI					04/24/2019	
ALESSANDRO TOMASI	NO				05/03/2019	
RECEIVING PARTY DA	TA					
Name:	INSTIT	UT N	ATIONAL DE LA RECHERCH	IE SC	IENTIFIQUE	
Street Address:	490 RL	490 RUE DE LA COURONNE				
City:	QUEBE	QUEBEC				
State/Country:	CANAE	CANADA				
Postal Code:	G1K9A9					
PROPERTY NUMBERS	Total: 1					
Property Type			Number			
Application Number: 1708		1708	6814			
CORRESPONDENCE D	ΑΤΑ					
Fax Number:	a cont tr	the	e-mail address first; if that is	e une	uccessful it will be sen	+
			nat is unsuccessful, it will be			2
Email:		USPA	ATENTS@LAVERY.CA			
Correspondent Name:			HHUGH MANSFIELD			
Address Line 1:	1 PLACE VILLE MARIE					
			E 4000			
Address Line 4:		MON	TREAL, CANADA H3B 4M4			
ATTORNEY DOCKET NU	JMBER:		G144448-00232-GB			
NAME OF SUBMITTER:			HUGH MANSFIELD			
SIGNATURE:			/HUGH MANSFIELD/			

DATE SIGNED:

Total Attachments: 12

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ASSIGNMENT

WHEREAS I, the undersigned, Yoann Jestin, Researcher Associate at INRS (hereinafter referred to as the "Assignor"), residing at 2547 rue Sicard, app, 301, Montréal, province of Québec, H1V 2Y8, Canada have, with others, made a certain invention known as « A METHOD AND A SYSTEM FOR HOMODYNE SOLID-STATE BIASED COHERENT DETECTION OF ULTRA-BROADBAND TERAHERTZ PULSES » hereinafter referred to as the "Invention");

WHEREAS INSTITUT NATIONAL DE LA RECHERCHE SCIENTIFIQUE, whose full post office address is

490 rue de la Couronne, Quebec City, Quebec, G1K 9A9, Canada,

(hereinafter referred to as the "Assignee") is desirous of acquiring the entire right, title, and interest that I hold in and to said Invention, in and to any patent applications which may filed in any and all countries in the world on said Invention, including divisional applications and continuation applications on the Invention and including any patent applications on the Invention in any foreign country under the provisions of the International Convention (hereinafter collectively the "Applications") and in and to any and all patents on the Invention obtained in any country in the world;

I hereby authorize and request my patent agent to insert missing information regarding any application covering the same invention when known here in parentheses (@untry <u>United States</u>, Application number <u>62/930,771</u>; filed <u>November 5, 2019</u>, @untry <u>United States</u>, Application number <u>17/086,814</u>, filed <u>November 2, 2020</u>; Country <u>Canada</u>, Application number <u>3,097,792</u>, filed <u>November 2, 2020</u>; **NOW THEREFORE**, in return for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged

- I the Assignor, do hereby confirm any assignment already made by me in favour of INRS in and to the Invention, its constituent parts, any Applications, and any patents on the Invention which may be obtained;
- And for more certainty I, the Assignor, do hereby sell, assign, transfer, and set over unto the Assignee, its successors and assigns, my entire right, title, and interest which I hold in and to said Invention, in any form or embodiment thereof, and in and to the above-described Applications; also the entire right, title and interest in and to any patent on the Invention and any reissue of a patent on the Invention: I hereby authorize and request the issuing authority to issue and deliver any and all patents on the foregoing including on said Applications in any and all countries, to said Assignee; the same to be held and enjoyed by the Assignee for its own use and behalf, and for the use and behalf of its successors and assigns, to the full end of the term or terms for which said patents may be granted, as fully and entirely as the same would have been held and enjoyed by me had this assignment not been made, as the assignee of my entire right, title and interest therein, in accordance with this assignment;

IN ADDITION I hereby agree that upon request, and without any payment by said Assignee, other than the expenses incurred by the undersigned, to communicate to said Assignee its successors and its assigns, their respective representatives and agents any facts known to me respecting the foregoing including any facts respecting said Invention, including evidence for interference purposes or for other proceedings, whenever requested; testify in any interference, litigation, or other proceedings, sign and deliver, on request, all lawful

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Assignment (English) Revised by AJSG November 21, 2014

papers necessary or useful to vest or perfect the title of the Assignee, its successors and assigns relating to the foregoing including relating to the Invention, the Applications and the aforementioned patents, or necessary or useful to make any of the foregoing provisions effective, make all rightful oaths and generally aid the Assignee, its successors, assigns, and their respective representatives and agents to obtain and enforce proper patent protect for said Invention in all countries and likewise make these provisions binding upon my heirs, legal representatives, administrators and assigns,

Tel que convenu par le Cessionnaire et le Cédant, cette cession a été rédigée en anglais. As agreed by both the Assignee and the Assignor, this assignment has been drawn up in English.

These presents shall be governed by and construed in accordance with the applicable laws of the Province of Quebec and the laws of Canada applicable therein and the forum in relation to same shall be Quebec, Quebec, Canada.

SIGNED in triplicate at <u>VARENNES</u> <u>GUEBEC</u> (City) (Province / State) (Country) this day of ACRE 2015 (Month) (Year) (The Assignor fills these blanks will the appropriate intermation as to the place and date of the Assignor's signature)

By the Assignor :

Contraction (

(Signature of Assignor)

Witness of Assignor's signature :

(Signature of witness of Assignor's signature)

YOANN JESTIN (Name of Assignor in printed letters)

<u>Persource</u> ERNOTTE

Acknowledged and accepted at Quebec City, Province of Quebec, Canada

By Institut national de la recherche scientifique :

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Mrs Josée, Charest, Director Research and Technology Transfer Department

Witness of INRS representative's signature:

Chamelle Baslit (Signature)

1" mai 2019

nie lle (Name of witness of INRS representative's

signature in printed letters)

Assignment (English) Revised by AJSG November 21, 2014

ASSIGNMENT

 WHEREAS I, the undersigned, Riccardo Piccoli, Postdoctoral researcher at INRS (hereinafter referred to as the "Assignor"),

 residing at Derech Yavne 50, Apt. 14.2, 7634323, Rehovot, Israel

 have, with others, made a certain invention

 known as « A method and a system for homodyne solid-state biased coherent detection of ultra-broadband terahertz pulses » (hereinafter referred to as the "Invention");

WHEREAS INSTITUT NATIONAL DE LA RECHERCHE SCIENTIFIQUE, whose full post office address is

490 rue de la Couronne, Quebec City, Quebec, G1K 9A9, Canada,

(hereinafter referred to as the "Assignee") is desirous of acquiring the entire right, title, and interest that I hold in and to said Invention, in and to any patent applications which may filed in any and all countries in the world on said Invention, including divisional applications and continuation applications on the Invention and including any patent applications on the Invention in any foreign country under the provisions of the International Convention (hereinafter collectively the "Applications") and in and to any and all patents on the Invention obtained in any country in the world;

I hereby authorize and request my patent agent to insert missing information regarding any application covering the same invention when known here in parentheses (Country<u>United States</u>, Application number <u>62/930,771</u>, filed<u>November 5, 2019</u>; Country<u>United States</u>, Application number<u>17/086,814</u>, filed<u>November 2, 2020</u>; Country <u>Canada</u>, Application number <u>3,097,792</u>, filed <u>November 2, 2020</u>;

NOW THEREFORE, in return for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged

- I the Assignor, do hereby confirm any assignment already made by me in favour of INRS in and to the Invention, its constituent parts, any Applications, and any patents on the Invention which may be obtained;
- And for more certainty I, the Assignor, do hereby sell, assign, transfer, and set over unto the Assignee, its successors and assigns, my entire right, title, and interest which I hold in and to said Invention, in any form or embodiment thereof, and in and to the above-described Applications; also the entire right, title and interest in and to any patent on the Invention and any reissue of a patent on the Invention. I hereby authorize and request the issuing authority to issue and deliver any and all patents on the foregoing including on said Applications in any and all countries, to said Assignee; the same to be held and enjoyed by the Assignee for its own use and behalf, and for the use and behalf of its successors and assigns, to the full end of the term or terms for which said patents may be granted, as fully and entirely as the same would have been held and enjoyed by me had this assignment not been made, as the assignee of my entire right, title and interest therein, in accordance with this assignment;

IN ADDITION I hereby agree that upon request, and without any payment by said Assignee, other than the expenses incurred by the undersigned, to communicate to said Assignee its successors and its assigns, their respective representatives and agents any facts known to me respecting the foregoing including any facts respecting said Invention, including evidence for interference purposes or for

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Assignment (English) Revised by AJSG November 21, 2014

other proceedings, whenever requested; testify in any interference, litigation, or other proceedings, sign and deliver, on request, all lawful papers necessary or useful to vest or perfect the title of the Assignee, its successors and assigns relating to the foregoing including relating to the Invention, the Applications and the aforementioned patents, or necessary or useful to make any of the foregoing provisions effective, make all rightful oaths and generally aid the Assignee, its successors, assigns, and their respective representatives and agents to obtain and enforce proper patent protect for said Invention in all countries and likewise make these provisions binding upon my heirs, legal representatives, administrators and assigns,

Tel que convenu par le Cessionnaire et le Cédant, cette cession a été rédigée en anglais. As agreed by both the Assignee and the Assignor, this assignment has been drawn up in English.

These presents shall be governed by and construed in accordance with the applicable laws of the Province of Quebec and the laws of Canada applicable therein and the forum in relation to same shall be Quebec, Quebec, Canada.

 SIGNED in triplicate at
 VACENNES
 QLIEBEC
 CANADA

 (City)
 (Province / State)
 (Country)

 this 24 day of
 AP2iL
 , 2019

 (Day)
 (Month)
 (Year)

By the Assignor :

Signature of Assignor

RICARDO

(Name of Assignor in printed letters)

Witness of Assignor's signature :

(Signature of witness of Assignor's signature)

(Name of witness in printed letters)

mai 2019

Acknowledged and accepted at Quebec City, Province of Quebec, Canada

By Institut national de la recherche scientifique :

Mrs Joséé Charest, Director Research and Technology Transfer Department

Witness of INRS representative's signature:

(Signature)

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Assignment (English) Revised by AJSG November 21, 2014

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ASSIGNMENT

WHEREAS I, the undersigned, Roberto Morandotti, Professor at INRS (hereinafter referred to as the "Assignor"), residing at 801 rue Sherbrooke Est, app, 807, Montréal, province of Québec, H2L 0B7, Canada have, with others, made a certain invention known as « A method and a system for homodyne solid-state biased coherent detection of ultra-broadband terahertz pulses » (hereinafter referred to as the "Invention");

WHEREAS INSTITUT NATIONAL DE LA RECHERCHE SCIENTIFIQUE, whose full post office address is

490 rue de la Couronne, Quebec City, Quebec, G1K 9A9, Canada,

(hereinafter referred to as the "Assignee") is desirous of acquiring the entire right, title, and interest that I hold in and to said Invention, in and to any patent applications which may filed in any and all countries in the world on said Invention, including divisional applications and continuation applications on the Invention and including any patent applications on the Invention in any foreign country under the provisions of the International Convention (hereinafter collectively the "Applications") and in and to any and all patents on the Invention obtained in any country in the world;

I hereby authorize and request my patent agent to insert missing information regarding any application covering the same invention when known here in parentheses (Country <u>United States</u>, Application number <u>62/930,771</u>); filed <u>November 5, 2019</u>, Country <u>United States</u>, Application number <u>17/086,814</u>, filed <u>November 2, 2020</u>; Country <u>Canada</u>, Application number <u>3,097,792</u>, filed <u>November 2, 2020</u>;

NOW THEREFORE, in return for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged

- I the Assignor, do hereby confirm any assignment already made by me in favour of INRS in and to the Invention, its constituent parts, any Applications, and any patents on the Invention which may be obtained;
- And for more certainty I, the Assignor, do hereby sell, assign, transfer, and set over unto the Assignee, its successors and assigns, my entire right, title, and interest which I hold in and to said Invention, in any form or embodiment thereof, and in and to the above-described Applications; also the entire right, title and interest in and to any patent on the Invention and any reissue of a patent on the Invention. I hereby authorize and request the issuing authority to issue and deliver any and all patents on the foregoing including on said Applications in any and all countries, to said Assignee; the same to be held and enjoyed by the Assignee for its own use and behalf, and for the use and behalf of its successors and assigns, to the full end of the term or terms for which said patents may be granted, as fully and entirely as the same would have been held and enjoyed by me had this assignment not been made, as the assignee of my entire right, title and interest therein, in accordance with this assignment;

IN ADDITION I hereby agree that upon request, and without any payment by said Assignee, other than the expenses incurred by the undersigned, to communicate to said Assignee its successors and its assigns, their respective representatives and agents any facts known to me respecting the foregoing including any facts respecting said Invention, including evidence for interference purposes or for other proceedings, whenever requested; testify in any interference, litigation, or other proceedings, sign and deliver, on request, all lawful

Assignment (English) Revised by AJSG November 21, 2014

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PATENT REEL: 054680 FRAME: 0236

papers necessary or useful to vest or perfect the title of the Assignee, its successors and assigns relating to the foregoing including relating to the Invention, the Applications and the aforementioned patents, or necessary or useful to make any of the foregoing provisions effective, make all rightful oaths and generally aid the Assignee, its successors, assigns, and their respective representatives and agents to obtain and enforce proper patent protect for said Invention in all countries and likewise make these provisions binding upon my heirs, legal representatives, administrators and assigns,

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SIGNED in triplic	ate at	VARENES	QUBS	Č.	CANADA	
		(City)	(Province /	Stale)	(Country)	
this <u>3</u> day of _	hay	. 20 1 2				
(Dav)	(Month)	13.2 3	ssignor fills these blanks v	with the appropriate informatio	on as to the place and date o	if the Assignor's signature

By the Assignor :

(Signature of Assignor)

KOBERTO

Ĩ.

(Name of Assignor in printed letters)

Witness of Assignor's signature :

(Signature of witness of Assignor's signature)

(Name of witness in printed letters)

Acknowledged and accepted at Quebec City, Province of Quebec, Canada

By Institut national de la recherche scientifique :

Mrs Josée Charest, Director Research and Technology Transfer Department

Witness of INRS representative's signature:

م (ژمیشهد (Signature)

Date

Deine elle

(Name of witness of INRS representative's signature in printed letters)

Assignment (English) Revised by AJSG November 21, 2014

Assignment (English) Revised by AJSG November 21, 2014

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ASSIGNMENT

WHEREAS I, the undersigned, Luca Razzari, Professor à l'INRS), (ci-après désigné(e) sous le terme « Cédant »), demeurant à 172 Avenue Trenton, app C, Mont-Royal, province of Québec, H3P 1Z4, Canada have, with others, made a certain invention known as « A method and a system for homodyne solid-state biased coherent detection of ultra-broadband terahertz pulses» (hereinafter referred to as the "invention");

WHEREAS INSTITUT NATIONAL DE LA RECHERCHE SCIENTIFIQUE, whose full post office address is 490 rue de la Couronne, Quebec City, Quebec, G1K 9A9, Canada,

(hereinafter referred to as the "Assignee") is desirous of acquiring the entire right, title, and interest that I hold in and to said Invention, in and to any patent applications which may filed in any and all countries in the world on said Invention, including divisional applications and continuation applications on the Invention and including any patent applications on the Invention in any foreign country under the provisions of the International Convention (hereinafter collectively the "Applications") and in and to any and all patents on the Invention obtained in any country in the world;

I hereby authorize and request my patent agent to insert missing information regarding any application covering the same invention when known here in parentheses (Country<u>United States</u>, Application number <u>62/930,771</u>, filed<u>November 5, 2019</u>; Country<u>United States</u>, Application number <u>17/086,814</u>, filed<u>November 2, 2020</u>; Country <u>Canada</u>, Application number <u>3,097,792</u>, filed<u>November 2, 2020</u>;

NOW THEREFORE, in return for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged

- I the Assignor, do hereby confirm any assignment already made by me in favour of INRS in and to the Invention, its constituent parts, any Applications, and any patents on the Invention which may be obtained;
- And for more certainty I, the Assignor, do hereby sell, assign, transfer, and set over unto the Assignee, its successors and assigns, my entire right, title, and interest which I hold in and to said Invention, in any form or embodiment thereof, and in and to the above-described Applications; also the entire right, title and interest in and to any patent on the Invention and any reissue of a patent on the Invention. I hereby authorize and request the issuing authority to issue and deliver any and all patents on the foregoing including on said Applications in any and all countries, to said Assignee; the same to be held and enjoyed by the Assignee for its own use and behalf, and for the use and behalf of its successors and assigns, to the full end of the term or terms for which said patents may be granted, as fully and entirely as the same would have been held and enjoyed by me had this assignment not been made, as the assignee of my entire right, title and interest therein, in accordance with this assignment;

IN ADDITION I hereby agree that upon request, and without any payment by said Assignee, other than the expenses incurred by the undersigned, to communicate to said Assignee its successors and its assigns, their respective representatives and agents any facts known to me respecting the foregoing including any facts respecting said Invention, including evidence for interference purposes or for other proceedings, whenever requested; testify in any interference, litigation, or other proceedings, sign and deliver, on request, all lawful

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Assignment (English) Revised by AJSG November 21, 2014

papers necessary or useful to vest or perfect the title of the Assignee, its successors and assigns relating to the foregoing including relating to the Invention, the Applications and the aforementioned patents, or necessary or useful to make any of the foregoing provisions effective, make all rightful paths and generally aid the Assignee, its successors, assigns, and their respective representatives and agents to obtain and enforce proper patent protect for said Invention in all countries and likewise make these provisions binding upon my heirs, legal representatives, administrators and assigns,

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SIGNED in triplic	ale at 🛛 🚺	a <u>eennes</u>	QL	CANANA .	
,		(City)	(Prevince / State)	(Country)	
this this day of	<u></u>		2		
(Day)	(Month)	(Year)	The Assignment fills these planks with the appropriate is	domution as to the place and date of the Assignor's signatu	ue)

By the Assignor :

(Signature of Assignor)

(Name of Assignor in printed letters)

Witness of Assignor's signature :

(Signature of witness of Assignor's

signature)

6 mai 2019

(Name of wilness in oripled letters)

Acknowledged and accepted at Quebec City, Province of Quebec, Canada

By Institut national de la recherche scientifique :

Mrs Josée Charest, Director Research and Technology Transfer Department

Witness of INRS representative's signature:

(Signature)

(Name of witness of INRS representative's signature in printed letters)

Assignment (English) Revised by AJSG November 21, 2014

<u>mea' 2019</u>

ASSIGNMENT

WHEREAS I, the undersigned, Alessandro Tomasino, PhD student at INRS at the time of the invention (hereinafter referred to as the "Assignor"), residing at 3555 rue Berri, Montreal, province of Québec, H2L 4G4, Canada have, with others, made a certain invention known as « *A method and a system for homodyne solid-state biased coherent detection of ultra-broadband terahertz pulses* » (hereinafter referred to as the "Invention");

WHEREAS INSTITUT NATIONAL DE LA RECHERCHE SCIENTIFIQUE, whose full post office address is

490 rue de la Couronne, Quebec City, Quebec, G1K 9A9, Canada,

(hereinafter referred to as the "Assignee") is desirous of acquiring the entire right, title, and interest that I hold in and to said Invention, in and to any patent applications which may filed in any and all countries in the world on said Invention, including divisional applications and continuation applications on the Invention and including any patent applications on the Invention in any foreign country under the provisions of the International Convention (hereinafter collectively the "Applications") and in and to any and all patents on the Invention obtained in any country in the world;

I hereby authorize and request my patent agent to insert missing information regarding any application covering the same invention when known here in parentheses (Country United States _____, Application number <u>62/930,771</u>_____, filed <u>November 5, 2019</u>___; Country <u>United States</u> _____, Application number <u>17/086,814</u>____, filed <u>November 2, 2020</u>; Country <u>Canada</u>, Application number <u>3,097,792</u>___, filed <u>November 2, 2020</u>;

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- And for more certainty I, the Assignor, do hereby sell, assign, transfer, and set over unto the Assignee, its successors and assigns, my entire right, title, and interest which I hold in and to said Invention, in any form or embodiment thereof, and in and to the above-described Applications; also the entire right, title and interest in and to any patent on the Invention and any reissue of a patent on the Invention. I hereby authorize and request the issuing authority to issue and deliver any and all patents on the foregoing including on said Applications in any and all countries, to said Assignee; the same to be held and enjoyed by the Assignee for its own use and behalf, and for the use and behalf of its successors and assigns, to the full end of the term or terms for which said patents may be granted, as fully and entirely as the same would have been held and enjoyed by me had this assignment not been made, as the assignee of my entire right, title and interest therein, in accordance with this assignment;

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Assignment (English) Revised by AJSG November 21, 2014

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PATENT REEL: 054680 FRAME: 0241

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other proceedings, whenever requested; testify in any interference, litigation, or other proceedings, sign and deliver, on request, all lawful papers necessary or useful to vest or perfect the title of the Assignee, its successors and assigns relating to the foregoing including relating to the Invention, the Applications and the aforementioned patents, or necessary or useful to make any of the foregoing provisions effective, make all rightful oaths and generally aid the Assignee, its successors, assigns, and their respective representatives and agents to obtain and enforce proper patent protect for said Invention in all countries and likewise make these provisions binding upon my heirs, legal representatives, administrators and assigns,

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These presents shall be governed by and construed in accordance with the applicable laws of the Province of Quebec and the laws of Canada applicable therein and the forum in relation to same shall be Quebec, Quebec, Canada.

SIGNED in triplic	ate at	VARONNOS	QUBBBC	CAWADA	
r. st		(City)	(Province / State)	(Country)	
this day of	MAY	20 13			
(Day)	(Month)	(Year) (The A	Assignor fills these tilanks with the appropriate	information as to the place and date of the Assignor's	signature)

By the Assignor :

Signature of Assignor

_Q> Name of Assignor in printed letters

(Sigpature of witness of Assignor's signature)

Howe

Acknowledged and accepted at Quebec City, Province of Quebec, Canada

By Institut national de la recherche scientifique :

Mrs Josée Chárest, Director Research and Technology Transfer Department

Witness of INRS representative's signature:

Da.

(Signature)

(Name of witness of INRS representative's signature in printed letters)

Assignment (English) Revised by AJSG November 21, 2014

(Name of witness in printed letters)

Witness of Assignor's signature :

101 Date



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Date

Assignment (English) Revised by AJSG November 21, 2014

RECORDED: 12/17/2020

PATENT REEL: 054680 FRAME: 0243