505578170 07/18/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5624969

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DAVID C. YATES	12/11/2018
CAMERON R. NOTT	01/03/2019
KEVIN L. HOUSER	01/03/2019
FREDERICK E. SHELTON IV	12/12/2018
JASON L. HARRIS	12/17/2018
VERNE E. KREGER JR.	12/20/2018

RECEIVING PARTY DATA

Name:	ETHICON LLC	
Street Address:	#475 STREET C, SUITE 401	
Internal Address:	LOS FRAILES INDUSTRIAL PARK	
City:	GUAYNABO	
State/Country:	PUERTO RICO	
Postal Code:	00969	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16209458

CORRESPONDENCE DATA

Fax Number: (412)355-6501

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: (412) 355-8276

Email: piuspatents@klgates.com

Correspondent Name: CARA M. PINTO
Address Line 1: 210 SITH AVENUE
K&L GATES CENTER

Address Line 4: PITTSBURGH, PENNSYLVANIA 15222-2613

ATTORNEY DOCKET NUMBER:	END8559USNP1/180141-1M
NAME OF SUBMITTER:	CARA M. PINTO
SIGNATURE:	/Cara M. Pinto/
DATE SIGNED:	07/18/2019

505578170 PATENT REEL: 049791 FRAME: 0406 This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 12

source=signed_combined_declarations-assignments#page1.tif source=signed_combined_declarations-assignments#page2.tif source=signed_combined_declarations-assignments#page3.tif source=signed_combined_declarations-assignments#page4.tif source=signed_combined_declarations-assignments#page5.tif source=signed_combined_declarations-assignments#page6.tif source=signed_combined_declarations-assignments#page7.tif source=signed_combined_declarations-assignments#page8.tif source=signed_combined_declarations-assignments#page9.tif source=signed_combined_declarations-assignments#page10.tif source=signed_combined_declarations-assignments#page11.tif source=signed_combined_declarations-assignments#page12.tif

PATENT REEL: 049791 FRAME: 0407

	US Application No.: 16/209 45			
	COMBINED DECLARATION AND ASSIGNMENT			
	Title of Invention: METHOD FOR SMART ENERGY DEVICE INFRASTRUCTURE			
	This declaration and assignment is directed to:			
	The attached or filed herewith application of (list of named inventors),			
	or and the second secon			
	The United States application or PCT international application number 16/209,458 filed on December 4, 2018.			
	Declaration			
	As the below named inventor, I hereby declare that:			
	The above-identified application ("Application") was made or authorized by me.			
	I believe that I am the original inventor or an original inventor of a claimed invention or discovery in the Application.			
	I have reviewed and understood the contents of the Application, including the claims, and I acknowledge the duty to disclost this Application in the United States of America.			
	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 for filings of this Application in the United States of America.			
1000	Assignment			
A CONTRACTOR OF THE PARTY OF TH	Ethicon LLC #475 Street C, Suite 401 Los Frailes Industrial Park Guaynabo, Puerto Rico 00969			
	a Limited Liability Company of Delaware.			
***************************************	(hereinafter designated as the "Assignee"),			
***************************************	I hereby acknowledge that I have assigned the above-identified invention by previous assignment (attached herete) to Assignee which is hereby conformed for recordation in the US Patent Office and I confirm I have and do assign and transfer:			
	For good and valuable consideration, the sufficiency of which is acknowledged, I hereby assign and transfer and/or have assigned and transferred to Assignee:			
	my entire right, title, and interest in, to, and under the Application, including all priority rights for other countries arising therefrom and the right to claim priority to the Application, all inventions or discoveries therein disclosed, and any and all Letters Patent of the United States. European Patent Office and of all other countries, which may be granted for such inventions or discoveries, or any of them, all such inventions or discoveries and all rights in such Application including any and all provisionals, substitutions, divisions, and continuations thereof, and to all Letters Patent that may be granted for said inventions and discoveries, and in and to all extensions, supplementary protection certificates, reexaminations, renewals, and reissues thereof, to be held and enjoyed by Assignee for its own use and enjoyment to the full end of the term or terms for which such Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me had this assignment and sale not been made.			
	Page 1 of 2			

PATENT

I shall execute all papers necessary in connection with the Application in the United States Patent and Trademark Office, European Patent Office, any other patent offices, and under the Patent Cooperation Treaty, and any continuing, divisional, or reissue applications thereof, any reexamination of any of such applications, and any patent term extensions or supplementary protection certificates of any such applications and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

I shall execute all papers necessary in connection with any litigation or any other judicial proceeding in the United States or other country, or any administrative proceeding in the United States Patent and Trademark Office, European Patent Office, any other patent office, or under the Patent Cooperation Treaty concerning the Application(s) or any continuation, divisional, or reissue applications thereof, or any reexamination of any such applications, or any Letters Patent issued therefrom or any patent term extensions or supplementary protection certificates of any such applications and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such litigation or proceeding.

I shall execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

I shall do all other acts which, in the opinion of Assignee, may be necessary or desirable to secure the grant of Letters Patent to Assignee or its nominees, in the United States, by the European Patent Office and in all other countries where Assignee may desire to have such inventions or discoveries, or any of them, patented, with specifications and claims in such form as shall be approved by Assignee and to vest and confirm in Assignee or its nominees the full and complete legal and equitable title to all such Letters Patent.

I hereby (i) anthorize and request the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from the Application or any divisional, continuation, or reissue applications thereof, and any reexamination of any of such applications, to Assignee, and (ii) covenant that I have full right to convey the interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

I hereby grant the attorney of record the power to insert on this assignment any further identification which may be necessary or desirable in order to obtain legal recordation of this document.

David C. Yates

LEGAL NAME OF INVENTOR

Signature

7.6

	US Application No.: <u>16/209.458</u>
COMBINI	ED DECLARATION AND ASSIGNMENT
Title of Invention: METHOD FOR SMAR	T ENERGY DEVICE INFRASTRUCTURE
This declaration and assignment is directed to:	
	The attached or filed herewith application of (list of named inventors),
or.	
	The United States application or PCT international application number 16/209.458 filed on December 4, 2018.
Declaration	
As the below named inventor, I hereby o	lectare that:
The above-identified application ("Appl	ication") was made or authorized by me.
I believe that I am the original inventor	or an original inventor of a claimed invention or discovery in the Application.
	ntents of the Application, including the claims, and I acknowledge the duty to disclose defined in Title 37, the United States Code of Federal Regulations, §1.56 for filings of
	alse statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or both for filings of this Application in the United States of America.
Assignment	الله القراري المعام
	Ethicon LLC #475 Street C, Suite 401 Los Frailes Industrial Park Guaynabo, Puerto Rico 00969
a	Limited Liability Company of Delaware.
(i	nereinafter designated as the "Assignee"),
	ned the above-identified invention by previous assignment (attached hereto) to Assignee US Patent Office and I confirm I have and do assign and transfer:
For good and valuable consideration, issigned and transferred to Assignee:	the sufficiency of which is acknowledged, I hereby assign and transfer and/or have
he right to claim priority to the Application, all states. European Patent Office and of all other uch inventions or discoveries and all rights in continuations thereof, and to all Letters Patent supplementary protection certificates, reexaminal	er the Application, including all priority rights for other countries arising therefrom and inventions or discoveries therein disclosed, and any and all Letters Patent of the United countries, which may be granted for such inventions or discoveries, or any of them, all n such Application including any and all provisionals, substitutions, divisions, and that may be granted for said inventions and discoveries, and in and to all extensions, ions, renewals, and reissues thereof, to be held and enjoyed by Assignee for its own use is for which such Letters Patent may be granted, as fully and entirely as the same would meent and sale not been made.
	Page 1 of 2

US Application No.: 16/209,458

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I shall execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

I shall do all other acts which, in the opinion of Assignee, may be necessary or desirable to secure the grant of Letters Patent to Assignee or its nominees, in the United States, by the European Patent Office and in all other countries where Assignee may desire to have such inventions or discoveries, or any of them, patented, with specifications and claims in such form as shall be approved by Assignee and to vest and confirm in Assignee or its nominees the full and complete legal and equitable title to all such Letters Patent.

I hereby (i) authorize and request the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from the Application or any divisional, continuation, or reissue applications thereof, and any reexamination of any of such applications, to Assignee, and (ii) covenant that I have full right to convey the interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

I hereby grant the attorney of record the power to insert on this assignment any further identification which may be necessary or desirable in order to obtain legal recordation of this document.

Cameron R. Nott	
LEGAL NAME OF INVENTOR	
All	01/03/2019
Signature	Date

CON	IBINED	DECLARATION AND ASSIGNMENT
Title of Invention: <u>METHOD FOR</u>	SMART	ENERGY DEVICE INFRASTRUCTURE
This declaration and assignment is directe	d to:	
	П	The attached or filed herewith application of (list of named inventors)
	or	
	Ø	The United States application or PCT international application number 16/209.458 filed on December 4, 2018.
Declaration		
As the below named inventor, I l	iereby dec	slare that:
The above-identified application	("Applica	ution") was made or authorized by me.
I believe that I am the original in	ventor or	an original inventor of a claimed invention or discovery in the Application.
I have reviewed and understood information which is material to patental this Application in the United States of A	ility as de	ents of the Application, including the claims, and I acknowledge the duty to disclose effined in Title 37, the United States Code of Federal Regulations, §1.56 for fillings of
I hereby acknowledge that any v mprisonment of not more than five (5) ye	villful fals ars, or bo	e statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or the for filings of this Application in the United States of America.
Assignment		ا . العالم التي التي التي التي التي التي التي التي
		Ethicon LLC #475 Street C, Suite 401 Los Frailes Industrial Park Guaynabo, Puerto Rico 00969
	a Li	mited Liability Company of Delaware.
	(her	einaffer designated as the "Assignee"),
I hereby acknowledge that I have which is hereby conformed for recordation	e assigned in the US	the above-identified invention by previous assignment (attached hereto) to Assignée S Patent Office and I confirm I have and do assign and transfer:
· ·		
For good and valuable consider issigned and transferred to Assignee:	ation, the	sufficiency of which is acknowledged, I hereby assign and transfer and/or have
he right to claim priority to the Applicati states, European Patent Office and of all uch inventions or discoveries and all a continuations thereof, and to all Letters I upplementary protection certificates, reex	on, all involved other counging in the council in the c	the Application, including all priority rights for other countries arising therefrom and ventions or discoveries therein disclosed, and any and all Letters Patent of the United antries, which may be granted for such inventions or discoveries, or any of them, all such Application including any and all provisionals, substitutions, divisions, and t may be granted for said inventions and discoveries, and in and to all extensions, as, renewals, and reissues thereof, to be held and enjoyed by Assignee for its own use or which such Letters Patent may be granted, as fully and entirely as the same would ent and sale not been made.
*		Page 1 of 2
*		

PATENT

US Application No.: 16/209,458

I shall execute all papers necessary in connection with the Application in the United States Patent and Trademark Office, European Patent Office, any other patent offices, and under the Patent Cooperation Treaty, and any continuing, divisional, or reissue applications thereof, any reexamination of any of such applications, and any patent term extensions or supplementary protection certificates of any such applications and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

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I shall do all other acts which, in the opinion of Assignee, may be necessary or desirable to secure the grant of Letters Patent to Assignee or its nominees, in the United States, by the European Patent Office and in all other countries where Assignee may desire to have such inventions or discoveries, or any of them, patented, with specifications and claims in such form as shall be approved by Assignee and to vest and confirm in Assignee or its nominees the full and complete legal and equitable title to all such Letters Patent.

I hereby (i) authorize and request the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from the Application or any divisional, continuation, or reissue applications thereof, and any reexamination of any of such applications, to Assignee, and (ii) covenant that I have full right to convey the interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

I hereby grant the attorney of record the power to insert on this assignment any further identification which may be necessary or desirable in order to obtain legal recordation of this document.

Kevin L. Houser

LEGAL NAME OF INVENTOR

Signature

Page 2 of 2

JAN-18 3-JAN-19

COMBINED DE	CLARATION AND ASSIGNMENT
Γitle of Invention: <u>METHOD FOR SMART ENE</u>	RGY DEVICE INFRASTRUCTURE
This declaration and assignment is directed to:	
☐ Th	e attached or filed herewith application of (list of named inventors)
or	
	e United States application or PCT international application mber 16/209,458 filed on December 4, 2018.
Declaration	
As the below named inventor, I hereby declare (hat:
The above-identified application ("Application") was made or authorized by me,
I believe that I am the original inventor or an or	iginal inventor of a claimed invention or discovery in the Application.
	f the Application, including the claims, and I acknowledge the duty to disclose I in Title 37, the United States Code of Federal Regulations, §1.56 for filings of
	tement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or filings of this Application in the United States of America.
Assignment	
J.	Ethicon LLC #475 Street C, Suite 401 os Frailes Industrial Park aynabo, Puerto Rico 00969
a Limited	Liability Company of Delaware.
(hereinal	ter designated as the "Assignee"),
	above-identified invention by previous assignment (attached hereto) to Assignee ent Office and I confirm I have and do assign and transfer:
For good and valuable consideration, the suff ssigned and transferred to Assignee:	ficiency of which is acknowledged, I hereby assign and transfer and/or have
the right to claim priority to the Application, all invention tates. European Patent Office and of all other countries such inventions or discoveries and all rights in such continuations thereof, and to all Letters Patent that may applementary protection certificates, reexaminations, re-	application, including all priority rights for other countries arising therefrom and one or discoveries therein disclosed, and any and all Letters Patent of the United as, which may be granted for such inventions or discoveries, or any of them, all Application including any and all provisionals, substitutions, divisions, and y be granted for said inventions and discoveries, and in and to all extensions, newals, and reissues thereof, to be held and enjoyed by Assignee for its own use hich such Letters Patent may be granted, as fully and entirely as the same would not sale not been made.
	Page 1 of 2

PATENT

US Application No.: 16/209,458

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I hereby (i) authorize and request the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from the Application or any divisional, continuation, or reissue applications thereof, and any reexamination of any of such applications, to Assignee, and (ii) covenant that I have full right to convey the interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

I hereby grant the attorney of record the power to insert on this assignment any further identification which may be necessary or desirable in order to obtain legal recordation of this document.

Frederick E. Shelton, IV

LEGAL NAME OF INVENTOR

Signature/

Date 12/12/18

	COMBINED DECLARATION AND ASSIGNMENT
	Title of Invention: METHOD FOR SMART ENERGY DEVICE INFRASTRUCTURE
A AND LOCAL COLUMN	This declaration and assignment is directed to:
	The attached or filed herewith application of (list of named inventors),
Control of the Control	
The Control of the Control of the Control	The United States application or PCT international application number 16/209,458 filed on December 4, 2018.
Accessor and the second	Declaration
The second second	As the below named inventor, I hereby declare that:
Charles Services and	The above-identified application ("Application") was made or authorized by me,
Section 200	I believe that I am the original inventor or an original inventor of a claimed invention or discovery in the Application.
	I have reviewed and understood the contents of the Application, including the claims, and I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, the United States Code of Federal Regulations, §1.56 for filings of this Application in the United States of America.
***************************************	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 for filings of this Application in the United States of America.
***************************************	Ethicon LLC #475 Street C, Suite 401 Los Frailes Industrial Park Guaynabo, Puerto Rico 00969
	a Limited Liability Company of Delaware.
	(hereinafter designated as the "Assignee"),
	I hereby acknowledge that I have assigned the above-identified invention by previous assignment (attached hereto) to Assignee which is hereby conformed for recordation in the US Patent Office and I confirm I have and do assign and transfer:
-	
	For good and valuable consideration, the sufficiency of which is acknowledged, I hereby assign and transfer and/or have assigned and transferred to Assignee:
	my entire right, title, and interest in, to, and under the Application, including all priority rights for other countries arising therefrom and the right to claim priority to the Application, all inventions or discoveries therein disclosed, and any and all Letters Patent of the United States. European Patent Office and of all other countries, which may be granted for such inventions or discoveries, or any of them, all such inventions or discoveries and all rights in such Application including any and all provisionals, substitutions, divisions, and continuations thereof, and to all Letters Patent that may be granted for said inventions and discoveries, and in and to all extensions, supplementary protection certificates, reexaminations, renewals, and reissues thereof, to be held and enjoyed by Assignee for its own use and enjoyment to the full end of the term or terms for which such Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me had this assignment and sale not been made.
The second second	Page 1 of 2

PATENT

US Application No.: 16/209,458

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I hereby grant the attorney of record the power to insert on this assignment any further identification which may be necessary or desirable in order to obtain legal recordation of this document.

Jason L. Harris	
LEGAL NAME OF INVENTOR	
Jour & Mri	12/17/2018
Signature	Date

	65 Application No.: 10/209,436
COMBINI	ED DECLARATION AND ASSIGNMENT
Title of Invention: METHOD FOR SMART ENERGY DEVICE INFRASTRUCTURE	
This declaration and assignment is directed to:	
Д	The attached or filed herewith application of (list of named inventors),
OF	
	The United States application or PCT international application number 16/209,458 filed on December 4, 2018.
Declaration	
As the below named inventor, I hereby	declare that:
The above-identified application ("Appl	lication") was made or authorized by me.
I believe that I am the original inventor	or an original inventor of a claimed invention or discovery in the Application.
I have reviewed and understood the conformation which is material to patentability as his Application in the United States of America	ntents of the Application, including the claims, and I acknowledge the duty to disclose defined in Title 37, the United States Code of Federal Regulations, §1.56 for filings of
I hereby acknowledge that any willful temperature of not more than five (5) years, or	Talse statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or both for filings of this Application in the United States of America.
Assignment	
	Ethicon LLC #475 Street C, Suite 401 Los Frailes Industrial Park Guaynabo, Puerto Rico 00969
ä	Limited Liability Company of <u>Delaware</u> .
	hereinafter designated as the "Assignee"),
I hereby acknowledge that I have assign which is hereby conformed for recordation in the	ned the above-identified invention by previous assignment (attached hereto) to Assignee US Patent Office and I confirm I have and do assign and transfer:
· •	s
For good and valuable consideration, ssigned and transferred to Assignee:	the sufficiency of which is acknowledged, I hereby assign and transfer and/or have
he right to claim priority to the Application, all states. European Patent Office and of all other uch inventions or discoveries and all rights i ontinuations thereof, and to all Letters Patent upplementary protection certificates, reexaminal	er the Application, including all priority rights for other countries arising therefrom and inventions or discoveries therein disclosed, and any and all Letters Patent of the United countries, which may be granted for such inventions or discoveries, or any of them, all in such Application including any and all provisionals, substitutions, divisions, and that may be granted for said inventions and discoveries, and in and to all extensions, tions, renewals, and reissues thereof, to be held and enjoyed by Assignee for its own use is for which such Letters Patent may be granted, as fully and entirely as the same would nment and sale not been made.
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PATENT

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Verne E. Kreger, Jr.

LEGAL NAME OF INVENTOR

E. Bregger of

lionature

December 20, 2018

Date