

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT6143550

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
SENTIENT ENERGY HOLDINGS, LLC	03/30/2020
RECEIVING PARTY DATA	
Name:	SENTIENT ENERGY, INC.
Street Address:	1209 ORANGE ST.,
City:	WILMINGTON
State/Country:	GERMANY
Postal Code:	19801
PROPERTY NUMBERS Total: 40	
Property Type	Number
Application Number:	62779305
Application Number:	15818512
Application Number:	62292674
Application Number:	14935148
Application Number:	62292668
PCT Number:	US2016012335
Application Number:	62933738
Application Number:	13734813
Application Number:	62745877
Application Number:	13312714
Application Number:	16574465
Application Number:	16858719
Application Number:	16714541
Application Number:	62732789
Application Number:	62286848
Application Number:	61582739
Application Number:	62100420
Application Number:	61667782
Application Number:	14989629
Application Number:	62773888

PATENT

Property Type	Number
Application Number:	16781837
Application Number:	62424271
Application Number:	13733745
Application Number:	15369667
Application Number:	16574486
Application Number:	62732770
Application Number:	62941425
Application Number:	61694121
Application Number:	61592385
PCT Number:	US2020016626
Application Number:	62800926
Application Number:	16653583
PCT Number:	US2011063561
Application Number:	62263512
Application Number:	61583117
Application Number:	16575220
Application Number:	62732818
Application Number:	62776753
Application Number:	61420247
Application Number:	16700888

CORRESPONDENCE DATA

Fax Number:

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: 6307185522

Email: Paralegal_koch@cpaglobal.com

Correspondent Name: SENTIENT ENERGY, INC

Address Line 1: 1209 ORANGE ST.,

Address Line 4: WILMINGTON, GERMANY 19801

NAME OF SUBMITTER:	JEFFREY K. JACOBS
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SIGNATURE:	/JEFFREY K. JACOBS/
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DATE SIGNED:	06/09/2020
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Total Attachments: 12

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ASSIGNMENT

WHEREAS, Sentient Energy Holdings, LLC, a Delaware limited liability company with a principle place of business at 4111 E 37th St. N, Wichita, KS 67220, ("Assignor"); owns all right, title, and interest in and to the patents and trademarks listed on Attachment A (collectively, the "Patents and Trademarks"); and

WHEREAS, Sentient Energy, Inc., a Delaware company having a Delaware registered address at 1209 Orange St., Wilmington DE 19801 ("Assignee"), desires to re-acquire from Assignor all right, title, and interest in the Patents and Trademarks;

WHEREAS, Assignor and Assignee erroneously executed a certain Confirmatory Assignment dated March 30, 2020, whereby Assignor erroneously sold all right, title and interest in and to the Patents and Trademarks to Assignee ("Exhibit A"); and

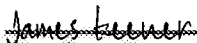
WHEREAS, Assignor and Assignee desire to execute this Assignment of the Patents and Trademarks confirming that Assignee is the owner.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor hereby sells, assigns, and transfers unto Assignee, its successors, legal representatives, and assigns, the entire right, title, and interest in and to the Patents and Trademarks, along with any right to claim priority required for any of the Patents under any applicable convention, treaty, statute, or regulation, the Patents to be held and enjoyed by Assignee, its successors, legal representatives, and assigns to the full end of the term of the Patents and Trademarks as fully and entirely as the Patents and Trademarks could have been held and enjoyed by Assignor if the assignment and sale had not been made, together with all rights of actions for past infringement thereof including the right to recover damages for said infringement.

AND, Assignor hereby warrants and covenants that Assignor has not and will not execute any assignment or other instrument in conflict with this assignment;

AND, Assignor hereby covenants and agrees to do everything possible to aid Assignee, its successors, legal representatives, and assigns, to maintain and enforce protection throughout the world for the Patents and Trademarks, including signing lawful papers, making assignments, rightful oaths, and declarations, and testifying in judicial or administrative proceedings.

DocuSigned by:

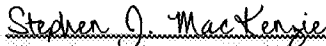

Sentient Energy, Inc.

Name: James "Jim" Keener

Title: CEO

Date: March 30, 2020

DocuSigned by:


Sentient Energy Holdings, LLC

Name: Stephen J. MacKenzie

Title: Chief Counsel

Date: March 30, 2020

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Attachment A — Patent and Trademark Schedule

DocuSign Envelope ID: 2636F50C-4F8B-4B97-9501-E243A4416086

Sentient Patent Status Report 2/12/2020										
MATTER NO	MATTER SUB	TITLE	COUNTRY	APPL NO	DATE FILED	PUBLICATION NUMBER	PUBLICATION DATE	PATENT NUMBER	GRANT DATE	STATUS
11549-700-100	Prov - DRG	SYSTEMS AND METHODS OF	United States of America	03/400,747	Dec 6, 2010					Expired
11549-700-200	Utility - DRG	SYSTEMS AND METHODS OF	United States of America	13/732,714	Dec 6, 2011	US-2012-0189554-A1	Jan 7, 2012	6,786,292	4/15/12	Issued
11549-700-600	Utility - DRG	SYSTEMS AND METHODS OF	USA	13/732,714	Dec 6, 2011	US-2012-0189554-A1	Jan 14, 2012			Closed
11549-701-100	Prov - DRG	SYSTEMS AND METHODS OF	United States of America							Unfiled
11549-702-100	Prov - DRG	SYSTEMS AND METHODS OF	United States of America	13/732,714	Dec 6, 2011					Expired
11549-702-200	Utility - DRG	SYSTEMS AND METHODS OF	United States of America	13/732,714	Dec 6, 2011	US-2012-0189554-A1	Jan 14, 2012	6,786,292	Nov 10, 2015	Issued
11549-702-300	Utility - DRG	SYSTEMS AND METHODS OF	United States of America	13/732,714	Dec 6, 2011	US-2012-0189554-A1	Jan 14, 2012	6,786,292	Nov 10, 2015	Issued
11549-703-100	Prov - DRG	SYSTEMS AND METHODS OF	United States of America	13/732,714	Dec 6, 2011					Expired
11549-703-200	Utility - DRG	SYSTEMS AND METHODS OF	United States of America	13/732,714	Dec 6, 2011	US-2012-0189554-A1	Jan 14, 2012	6,786,292	Nov 10, 2015	Issued
11549-703-300	Utility - DRG	SYSTEMS AND METHODS OF	United States of America	13/732,714	Dec 6, 2011	US-2012-0189554-A1	Jan 14, 2012	6,786,292	Nov 10, 2015	Issued
11549-704-100	Prov - DRG	SYSTEMS AND METHODS OF	United States of America	13/732,714	Dec 6, 2011					Unfiled
11549-705-100	Prov - DRG	SYSTEMS AND METHODS OF	United States of America	13/732,714	Dec 6, 2011					Expired

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Sentient Patent Status Report 2/12/2020

MATTER NO.	MATTER SLR	MATTER TYPE	TITLE	COUNTRY	APPL NO.	DATE FILED	PUBLICATION INDICATOR	PUBLICATION DATE	PATENT NUMBER	GRANT DATE	STATUS
11549-705-100	None	DRG	SYSTEM FOR THE DETERMINATION OF THE STATE OF THE ART	United States of America	61/587,382	Jul 3, 2012					Expired
11549-707-100	None	DRG	SYSTEM FOR THE DETERMINATION OF THE STATE OF THE ART	United States of America	61/604,121	Aug 28, 2012					Expired
11549-708-100	None	DRG	SYSTEM FOR THE DETERMINATION OF THE STATE OF THE ART	United States of America							Unfiled
11549-709-100	None	DRG	SYSTEM FOR THE DETERMINATION OF THE STATE OF THE ART	United States of America							Unfiled
11549-710-100	None	DRG	SYSTEM FOR THE DETERMINATION OF THE STATE OF THE ART	United States of America							Unfiled
11549-711-100	None	DRG	SYSTEM FOR THE DETERMINATION OF THE STATE OF THE ART	United States of America							Unfiled
11549-712-100	None	DRG	SYSTEM FOR THE DETERMINATION OF THE STATE OF THE ART	United States of America							Unfiled
11549-713-100	None	DRG	SYSTEM FOR THE DETERMINATION OF THE STATE OF THE ART	United States of America							Unfiled
11549-714-100	None	DRG	SYSTEM FOR THE DETERMINATION OF THE STATE OF THE ART	United States of America	61/100,826	Jan 6, 2015					Expired
11549-715-100	None	DRG	SYSTEM FOR THE DETERMINATION OF THE STATE OF THE ART	United States of America	14/982,629	Jan 6, 2018	1/1/2018 2017475-01	Jul 7, 2018	9,054,854	Apr 23, 2018	Issued

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Sentient Patent Status Report 2/12/2020										
MATTER NO.	MATTER SIZE	TITLE	COUNTRY	APP NO.	DATE FILED	PUBLICATION NUMBER	PUBLICATION DATE	PATENT NUMBER	GRANT DATE	STATUS
11549-714-000	Utility - DRG	DEFINING AND APPROPRIATING THE SCOPE OF PROTECTION OF A POWER LINE ACCESS POINT	USA	PCT/US2016/012339	Jan 6, 2018	WO 2016711236A	Oct 14, 2016			Expired
11549-714-300	Prov. - DRG	CURRENT NAVIGATION PROVISIONS WITH PROTECTION FROM HIGH CURRENTS	United States of America	62/593,532	Dec 3, 2017					Expired
11549-714-300	Utility - DRG	CURRENT NAVIGATION PROVISIONS WITH PROTECTION FROM HIGH CURRENTS	United States of America	15/209,667	Dec 5, 2016	US 2017-0167320-A1	Jan 8, 2017	5,988,818	May 29, 2018	Issued
11549-715-100	Prov. - DRG	ORGANIC SOLAR PHOTOVOLTAIC DEPENDENT POWER	United States of America	62/332,668	Feb 8, 2018					Expired
11549-716-300	Prov. - DRG	POWERED SYSTEMS FOR POWER AND POWERED AND POWER	United States of America	62/386,848	Jan 25, 2018					Expired
11549-717-300	Prov. - DRG	COMPOSITE POWER LINE SYSTEM	United States of America	62/392,674	Feb 8, 2018					Expired
11549-718-100	Prov. - DRG	OVERHEAD POWER LINE SYSTEM	United States of America	62/424,271	Nov 18, 2016					Completed
11549-718-200	Utility - DRG	OVERHEAD POWER LINE SYSTEM	United States of America	15/218,512	Nov 20, 2017	US 2018-0163239-A1	May 24, 2018			Issued
11549-719-100	Prov. - DRG	OVERHEAD POWER LINE SYSTEM	United States of America	62/773,888	Nov 30, 2018					Expired
11549-719-200	Utility - DRG	OVERHEAD POWER LINE SYSTEM	United States of America	16/740,888	Dec 2, 2019					Pending
11549-720-300	Prov. - DRG	POWER LINE SYSTEM WITH AUTOMATIC POWER	United States of America	62/395,877	Oct 15, 2018					Expired
11549-720-300	Utility - DRG	POWER LINE SYSTEM WITH AUTOMATIC POWER	United States of America	16/692,503	Oct 15, 2019					Pending
11549-721-100	Prov. - DRG	POWER LINE SYSTEM WITH AUTOMATIC POWER	United States of America	62/792,770	Jan 18, 2018					Expired

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Sentient Patent Status Report 2/12/2020

MATTER NO	MATTER SUB MATTER TYPE	TITLE	COUNTRY	APPL NO	DATE FILED	PUBLICATION NUMBER	PUBLICATION DATE	PATENT NUMBER	GRANT DATE	STATUS
11549-721-200	Utility - DRG	SYSTEMS AND METHODS TO MANAGE PROBABLY VOLUNTARY CARRIERS OF GENETICALLY TRANSMITTED DISEASE	United States of America	15/574,485	Sep 18, 2019					Pending
11549-722-100	Proc - DRG	SYSTEMS AND METHODS TO MANAGE PROBABLY VOLUNTARY CARRIERS OF GENETICALLY TRANSMITTED DISEASE	United States of America	15/574,485	Sep 18, 2019					Expired
11549-722-200	Utility - DRG	SYSTEMS AND METHODS TO MANAGE PROBABLY VOLUNTARY CARRIERS OF GENETICALLY TRANSMITTED DISEASE	United States of America	15/574,485	Sep 18, 2019					Pending
11549-723-100	Proc - DRG	SYSTEMS AND METHODS TO MANAGE PROBABLY VOLUNTARY CARRIERS OF GENETICALLY TRANSMITTED DISEASE	United States of America	15/574,485	Sep 18, 2019					Expired
11549-723-200	Utility - DRG	SYSTEMS AND METHODS TO MANAGE PROBABLY VOLUNTARY CARRIERS OF GENETICALLY TRANSMITTED DISEASE	United States of America	15/574,485	Sep 18, 2019					Pending
11549-724-100	Proc - DRG	SYSTEMS AND METHODS TO MANAGE PROBABLY VOLUNTARY CARRIERS OF GENETICALLY TRANSMITTED DISEASE	United States of America	15/574,485	Sep 18, 2019					Expired
11549-725-100	Proc - DRG	SYSTEMS AND METHODS TO MANAGE PROBABLY VOLUNTARY CARRIERS OF GENETICALLY TRANSMITTED DISEASE	United States of America	15/574,485	Sep 18, 2019					Expired
11549-725-200	Utility - DRG	SYSTEMS AND METHODS TO MANAGE PROBABLY VOLUNTARY CARRIERS OF GENETICALLY TRANSMITTED DISEASE	United States of America	15/574,485	Sep 18, 2019					Pending
11549-726-100	Proc - DRG	SYSTEMS AND METHODS TO MANAGE PROBABLY VOLUNTARY CARRIERS OF GENETICALLY TRANSMITTED DISEASE	United States of America	15/574,485	Sep 18, 2019					Expired
11549-727-100	Proc - DRG	SYSTEMS AND METHODS TO MANAGE PROBABLY VOLUNTARY CARRIERS OF GENETICALLY TRANSMITTED DISEASE	United States of America	15/574,485	Sep 18, 2019					Expired
11549-728-100	Proc - DRG	SYSTEMS AND METHODS TO MANAGE PROBABLY VOLUNTARY CARRIERS OF GENETICALLY TRANSMITTED DISEASE	United States of America	15/574,485	Sep 18, 2019					Expired
11549-728-200	Utility - DRG	SYSTEMS AND METHODS TO MANAGE PROBABLY VOLUNTARY CARRIERS OF GENETICALLY TRANSMITTED DISEASE	United States of America	15/574,485	Sep 18, 2019					Pending
11549-729-100	Proc - DRG	SYSTEMS AND METHODS TO MANAGE PROBABLY VOLUNTARY CARRIERS OF GENETICALLY TRANSMITTED DISEASE	United States of America	15/574,485	Sep 18, 2019					Expired
11549-730-100	Proc - DRG	SYSTEMS AND METHODS TO MANAGE PROBABLY VOLUNTARY CARRIERS OF GENETICALLY TRANSMITTED DISEASE	United States of America	15/574,485	Sep 18, 2019					Expired

Sentient Patent Status Report 2/12/2020

MATTER NO.	MATTER TITLE	TITLE	COUNTRY	APPL NO.	DATE FILED	PUBLICATION NUMBER	PUBLICATION DATE	PATENT NUMBER	GRANT DATE	STATUS
11548-731.100	Prov - ORG	POWER SUPPLY FOR ELECTRIC UTILITY UNDERGROUND CABLES	United States of America	62/806,926	Feb 4, 2019					Granted
11549-731.100	Utility - ORG	POWER SUPPLY FOR ELECTRIC UTILITY UNDERGROUND CABLES	United States of America	62/781,637	Feb 4, 2020					Pending
11549-731.090	Utility - ORG	POWER SUPPLY FOR ELECTRIC UTILITY UNDERGROUND CABLES	PCT	PCT/US2018/018625	Feb 3, 2020					Pending
11548-732.100	Prov - ORG	MAGNETIC CURRENT CARRIER	United States of America							Granted
11548-733.100	Prov - ORG	ELECTRIC FIELD BASED SCHEMATIC DESIGN FOR CABLES AND CABLES	United States of America	62/842,738	Nov 11, 2019					Pending
11548-734.100	Prov - ORG	POWERLINE TENSING SYSTEM WITH INCLUDING ABBREVIATION AND DETECTION SYSTEM	United States of America	62/841,875	Nov 27, 2019					Pending
11548-735.100	Prov - ORG	UNDERGROUND CABLES	United States of America							Granted
11548-736.100	Prov - ORG	UNDERGROUND CABLES	United States of America							Pending

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Title	Country	Serial Number	Registration Number
Sentient Energy	United States of America	88262168	5878242
Sentient Energy	United States of America	28083086	5761409
Sentient Energy	United States of America	85247704	4037873
Sentient	United States of America	85247728	4037874
ArcShield	United States of America	86577999	None
Grid Analytics	United States of America	86581116	None
cFCI	United States of America	85520184	4354262
IBOLT	United States of America	85779731	None
IBOLT	United States of America	85779005	4506772
Empowering Distribution Line Management	United States of America	85949020	4469807
The Eyes and the Ears of the Smart Grid	United States of America	77886799	4210413
Domain Name	Registrar	Registration Date	Expiration Date
www.sentient-energy.com	GoDaddy Software	9/9/2009	9/9/2020 (autorenews)

Exhibit A

CONFIRMATORY ASSIGNMENT

WHEREAS, Sentient Energy, Inc., a Delaware corporation with a principle place of business at 4111 E 37th St. N, Wichita, KS 67220, ("Assignor"), owns all right, title, and interest in and to the patents and trademarks listed on Schedule (collectively, the "Patents and Trademarks"); and

WHEREAS, Sentient Energy Holdings, LLC, a Delaware limited liability company having a place of business at 4111 E 37th St. N, Wichita, KS 67220 ("Assignee"), has acquired from Assignor all right, title, and interest in the Patents and Trademarks;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor by these presents confirms selling, assigning, and transferring unto Assignee, its successors, legal representatives, and assigns, the entire right, title, and interest in and to the Patents and Trademarks, along with any right to claim priority required for any of the Patents under any applicable convention, treaty, statute, or regulation, the Patents to be held and enjoyed by Assignee, its successors, legal representatives, and assigns to the full end of the term of the Patents and Trademarks as fully and entirely as the Patents and Trademarks could have been held and enjoyed by Assignor if the assignment and sale had not been made, together with all rights of actions for past infringement thereof including the right to recover damages for said infringement.

AND, Assignor hereby warrants and covenants that Assignor has not and will not execute any assignment or other instrument in conflict with this assignment;

AND, Assignor hereby covenants and agrees to do everything possible to aid Assignee, its successors, legal representatives, and assigns, to maintain and enforce protection throughout the world for the Patents and Trademarks, including signing lawful papers, making assignments, rightful oaths, and declarations, and testifying in judicial or administrative proceedings.

DocuSigned by:

Robert J. Gibson Jr.

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Sentient Energy, Inc.

Name: Robert J. Gibson, Jr.

Title: President

Date: March 30, 2020

DocuSigned by:

Justin Hoppas

AEBAB855DDDF42E

Sentient Energy Holdings, LLC

Name: Justin Hoppas

Title: President

Date: March 30, 2020

Patent

PATENT

RECORDED: 06/09/2020

REEL: 052871 FRAME: 0342